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ANNUAL REPORT

OF THE

SECRETARY OF STATE,

TO THE

GOVERNOR OF THE STATE OF OHIO,

FOR THE YEAR 1879.

1870/71

COLUMBUS:
NEVINS & MYERS, STATE PRINTERS.
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OHIO PIONEER HISTORY.

CRESAP AND LOGAN, CRAWFORD'S CAMPAIGN, AND A BRIEF BIOGRAPHICAL SKETCH OF COL. WILLIAM CRAWFORD.

By ISAAC SMUCKER.

•

desire to vindicate the truth of history, to defend the reputation of a meritorious revolutionary officer against the aspersions most unjustly heaped upon him, and to disprove the false charges that have induced so many to attach infamy to the name and memory of Captain Michael Cresap, will, I trust, be deemed by all fair-minded persons, a sufficient reason and full justification for occupying so much space.

blistered body amidst the blazing flames of the stake, there was experienced such heart-rending anguish of soul as can not be expressed in words. A gloom was spread in every countenance. Sympathy and commiseration went out from every heart. All keenly felt the tortures inflicted upon the heroic patriot-soldier. Every one sorely lamented, with the Father of his Country, the melancholy, sad, sorrowful ending of the noble life of the brave companion in arms and friend of Washington. All hearts were moved by the tenderest sympathy when the announcement was made that there was such a sorrowful termination to the valuable life of the BRAYE PIONEER OF THE YOUGHIOGHENY!

OHIO TERRITORIAL LAWS

FOR THE

PUNISHMENT OF CRIME.

BY CHARLES B. FLOOD.

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ITS ADMISSION INTO THE UNION.

BY I. W. ANDREWS,

President of Marietta College.

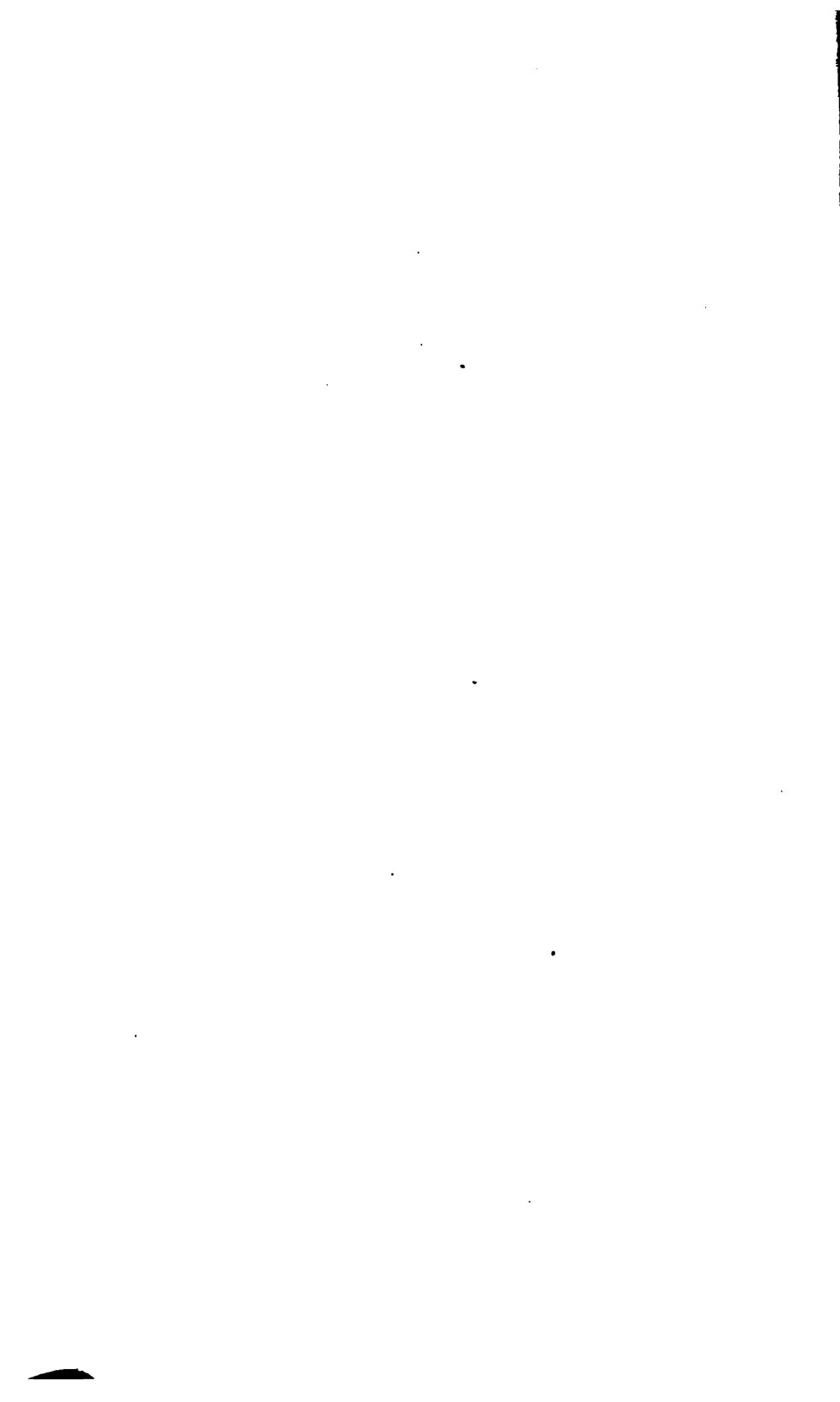


OFFICIAL ROSTER OF OHIO,

FOR 1879-80.

[AS REPORTED BY EACH DEPARTMENT.]

UDGES OF THE COURTS, AND TIMES OF HOLDING COURTS, TRUSTEES
AND OFFICERS OF STATE EDUCATIONAL, REFORMATORY, AND
BENEVOLENT INSTITUTIONS, MEMBERS OF THE GENERAL ASSEMBLY OF OHIO, APPORTIONMENT
OF GENERAL ASSEMBLY, COUNTY
OFFICERS, Etc., Etc., Etc.,



OHIO STATE BOARD OF AGRICULTURE.

Name.	Office.	Residence.	Term of office.	Term expires.
B. W. Carlisle L. B. Wing Jas. W. Fleming	President Treasurer Acting Secretary.	Hooker's Station Newark Columbus	66	January, 1880 January, 1880 January, 1880

DEPARTMENT OF MINES.

Name.	Office.	Residence.	Term of office.	Term expires
David Owens	State Inspector of Mines	Sodom, Trumbull Co.	4 years.	Nov. 14, 188

BUREAU OF LABOR STATISTICS.

Name.	Office.	Residence.	Term of office.	Term	expires.
H. J. Walls	Commissoner	Columbus	2 years.	Jan.	1, 1881

COLUMBUS ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
Joseph P. Smith, President	Circleville.
Joseph P. Smith, President John Greenleaf, Secretary Benjamin Myers George W. Morgan C. P. L. Butler	Ashland. Mt. Vernon.
C. P. L. Butler	Columbus.

Name.	Residence.
Firestone, Superintendent.	Columbus.
Ionry A. Tobey, Assistant	Columbus.
Chomas R. Sparrow, "	Columbus.
leorge P. Follett, ' '	Columbus.
Ars. S. Firestone, Matron	Columbus.

CLEVELAND ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
A. McGregor	Cleveland.

Name.	Office.	
Jamin Strong, M.D. John S. Marshall, M.D. James D. Maxwell, M.D. F. D. Burton, M.D. C. W. Diehl. Nottie L. Strong.	Third "Steward.	

LONGVIEW ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
H. D. Peck	Cincinnati.
Rev. J. F. Chalfant A. J. Mullane B. Roth	"
C. S. Muscroft	

' Name.	Reside	ence.
C. A. Miller, M.D., Superintendent	Longview	Asylum.
Dr. J. M. Ratliff, " W. H. Rowe, Steward	66	66

OHIO SOLDIERS' AND SAILORS' ORPHANS' HOME.

BOARD OF TRUSTEES.

Name.	Residence.
B. Burns, President	Mansfield. Xenia. Washington C. H.
A. N. Stork, Secretary	Cambridge. Roscoe.

Name.	Residence.
N. R. Wyman, Superintendent	Sidney.
C. B. Jones, Physician	Xenia.

TOLEDO HOUSE OF REFUGE AND CORRECTION.*

BOARD OF TRUSTEES.

Name.	Residence.
Geo. L. Johnson, President	Toledo.
John M. Hauser	"
Walter Pickens	- **

Nume.	Residence.
Chas Douglass, Superintendent	Toledo.
W. K. Mandeville, Deputy Superintendent	46 46

^{*} Not under State control.

OHIO REFORM SCHOOL.

BOARD OF TRUSTEES.

Name.	Residence.
John M. Pugh Rev. B. W. Chidlaw Chas. Mams Jacob Cherryholmes Henry J. Reinmund	Belle Center

OFFICERS.
(Not reported.)

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NINTH DISTRICT.

District Court.

Trumbull, April 12; Portage, April 5; Lake, March 31; Geauga, April 7; Ashtabula, March 22; Mahoning, March 22; Columbiana, April 21; Carroll, April 28; Stark, April 12.

Common Pleas.

Carroll, January 19, May 10, November 8.

Stark, January 19, May 10, October 18.

Columbiana, February 9, May 24, November 22.

Mahoning, January 12, May 3, September 6.

Trumbull, February 9, May 24, October 18.

Portage, January 12, May 3, September 6.

Lake, February 9, May 31, November 15.

Geauga, January 12, May 3, October 18.

Ashtabula, January 12, May 3, October 18.

TENTH DISTRICT.

District Court.

Ford, July 9; Hardin, March 30; Hancock, April 7; Logan, March 19; Marion, 5 29; Union, March 16; Seneca, April 13; Wood, April 20; Wyandot, April 2.

Common Pleas.

Crawford, January 5, April 26, September 6.
Hardin, February 23, May 3, October 4.
Hancock, January 5, June 8, September 6.
Logan, February 17, May 25, October 19.
Marion, February 17, June 8, November 2.
Seneca, February 2, May 31, September 6.
Union, January 5, May 3, September 13.
Wood, February 16, May 3, October 4.
Wyandot, February 2, May 18, October 13.

OFFICE OF THE SECRETARY OF STATE, COLUMBUS, O., November 10, 1879.

I hereby certify that the above is correctly copied from the official lists returned to his office.

[SEAL.]

MILTON BARNES, Secretary of State.

Attorney.at.Law. Farmer. Manufacturer. Editor. Banker. Physician.
Kullersburg Russellville Circleville Urichsville Urichsville Delta
E, Luther M. Goorge P. Brown Pickaway Tuscustawas Tuscustawas Fulton
Strong, Luther M. Sullivan, J. J. Tyler, George P. Van Cleaf, A. R. Wilkine, Beriah Wilkine, John A. Fulton
13th 17th and 28th 4th 10th 18th 33d

APPORTIONMENT—SENATE.

Population of State, 2,655,118; pull ratio, 76,146; three-fourths ratio, 5

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1	Counties.	Population.	Population of district.	ion over full	ion multi- id by five.	er added fraction.		7	l'erm	6 .		
	Counties.	Popu	Popul dist	Fraction ratio.	Fraction plied b	Number for fra	lst.	2d.	3d.	4th.	5th.	Total.
1	Dolaware	25,175 36,122	61,297				1	1		,		_
17	Knox	26,333 18,5t3)			••••	•		1	1	1	5
a nd	Total 17th dis	44,946	98,176	22,030	110,150	1	1	1	1	1	2	C
28	Wayne Holmes	35,0#2 15,178		22,0.50	110,100	1	1			•	2	6
	Total 23th dis.	53,260	j .									
18	Coshocton Tuscarawas	23,600 33,840	57,44 0				1	1				_
19	Guernsey Monroe Noble (part)	23,798 25,780 9,974	07,410		••••		•	1	1	1	1	5
20	Belmont Harrison	39,715 18,682	59,552	••••			1	1	1	1	1	5
51	Carroll Stark	14,491 52,508	58,397		••••		1	1	1	1	1	5
55	Jefferson Columbiana	29,188 38,299	66,999				1	1	1	1	1	5
23	Trumbull Mahoning	38,659 31,001	67,487 69,660	••••	••••	•••	1	1	1	1	1	5
24	Ashtabula Lake Geauga	32,518 15,935 14,200	05,000		••••		1	1	1	1	1	5
25	Cuyahoga	132,012	62,653		••••		1	1	1	1	1	5
2 6	Portage	24,577 34,674	132,012	55,866	279,330	3	2	2	2	1	1	8
27	Medina Lorain	20,092 30,308	59,251		••••	•••	1	1	1	1	1	5
a nd	Total 27th dis.	50,400	104 840	00 202	140 515							
5 9	Ashland	21,933 32,516	104,849	28,703	143,515	1	1	1	1	1	2	6
	Total 29th dis.	54,419	,									
30	Huron Erie	28,532 28,188 25,504		•								
	Ottawa	13,361	95,585	19,439	97,195	1	1	1	1	1	2	6

APPORTIONMENT-SENATE-Continued.

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*Fraction over three full ratios.

ROSTER

OF

COUNTY OFFICERS.

Counties.	County seats.	Probate Judges.	Clerks of Courts.
Perry	. New Lexington	John H. Kelly	John H. Marlow.
Pickaway	Circleville	Henry N. Hedges	Peter W. Brown.
Pike	Waverly		John P. Douglass.
Portage.	Ravenna	Gideon Seymour	John Mehary.
Preble	. Eaton	Andrew L. Harris	John Townsend.
Putnam	. Ottawa	S. S. Bacon	J. J. Zeller.
Richland	Mansfield	Eckels McCoy	Thomas T. Dill.
088	Chillicothe		Edwin W. Pearson.
andusky	Fremont	E. F. Dickinson	B. C. Winters.
cioto	Portsmouth	H. C. Turkey	Robert Bell.
eneca	Tiffin	Jacob F. Bunce	Jeremiah Rex.
nelby		1	Dennis Mulvihill.
ark	Canton	A. W. Heldenbrand	John T. Hays.
ımmit			Samuel Nash.
rumbull			Oscar A. Caldwell.
iscatawas			Jacob Degrief.
niou			W. M. Wright.
n Wert		W. H. Mosure.	George W. Day
nton		Joseph Kaler	John C. Cooney.
arren			Lot Wright.
ashington		Cornelius F. Frazyer	Christian H. Etz.
ayne	1		George Power.
illiams		Martin Perkey	W. H. Chilcote.
oud		John Reed	W. S. Eberly.
yandot			Robert D. Dumm.

Counties.	County seats.	Sheriffs.	Prosecuting Attorney
Ottawa	Port Clinton	Reuben Grant	George W. Keightley
Paulding		Jasper A. Ferguson	Medary D. Mann.
Perry	New Lexington		Joseph G. Huffman.
Picksway			Charles J. Delaplaine
Pike	Waverly	Philip Buchert	Sidney A. Steadman.
Portage		Benjamin F. Keller	Osman S. Ferris.
Proble	Eaton	Wm. H. Snyder	Winfield Freeman
Putnam			James T. Leutzy.
Richland		James Ritchey	
Ross		Thomas L. Mackey	Albert Douglas, Jr.
Sandusky		Charles F. Pohlman	John F. Garver.
Scioto	Portsmouth		H. W. Farnham.
Seneca			Guilford B. Keppel.
Shelby			
Stark		John P Rauch	Robert S. Shields.
Summit			Edward W. Stuart.
Crumbull		Sidney F. Bartlett	Thomas J. Gillmer.
Cuscarawas		Joseph S. Lyons	Jasper H. Mitchell.
Jmion		Justus J. Miller	P. L. Woodburn.
Wert		Jesse R. Stilth	Wm. H. Cunninghan
in ton		Wm. Cottrell	Charles L. White.
Varren			D. Allen.
			Frank F. Oldham.
Va vne	Wooster	Wm. Coulter	Peter Buehl.
7illiams	Bryan		Robert A. Scott.
700d	Bowling Greeen	Henry Orrin	Frank A. Baldwin.
Sa ndot	Upper Sandusky.	John M. Houston	Moses H. Kirby.

Counties.	County seats.	Auditors.	Treasurers.
Ottawa	Port Clinton	John W. Mizener	Elias Lay.
Paulding	Paulding	Charles Hakes	8. G. Robertson.
Perry	New Lexington	Orrin Thacker	Noah Karr.
Pickaway	Circleville	Frank M. Schulze	John L. Seal.
Pike	Waverly	Van H. Bond	John Rader.
Portage	Ravenna	Wm. Grinnell	Nathan H. Smith.
Preble	Eaton	Samuel Oldfather	Samuel S. Dix.
Putnam	Ottawa	Lewis Lehmkuhle	Hugh L McDowell.
Richland	Mansfield	Marion D. Ward	Merchant Carter.
Ross	Chillicothe	Frank J. Esker	Stanislans Burkley.
Sandusky	Fremont	Adam Hodes	Elias Moore.
Scioto	Portsmouth	W. H. H. Cadot	B. R. Miles.
Seneca	Tiffin	Victor J. Zahm	John W. Barrack.
Shelby	Sidney	Orlando O. Mathers	Joseph S. Laughlin.
Stark	Canton	Wm. A. Creech	Timothy Sullivan.
Summit	Akron	Edward Buckingham	Viele H. Clarence.
Trumbull	Warren	Ralza C. Rice	Timothy W. Case.
Tuscarawas	New Philadelphia		John A. Wagner.
Union	Marysville	W. L. Curry	George W. Court.
Van Wert	Van Wert	Wm. T. Exline	James Montgomery
Vinton	McArthur	John T. Foreman	Thomas H. Craig.
Warren	Lebanon	Charles W. Randall	Martin A. Jameson.
Washington	Marietta	Benjamin J. McKinney.	Wm. R. Goddard.
Wayne	Wooster	John Bruce Wilson	Lewis P. Ohliger.
Williams	Bryan	George Rings	Elisha M. Ogle.
Wood	Bowling Green	Samuel Case	A. M. Russel.
Wyandot	Upper Sandusky.	Laudline Smith	George W. Biles.

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INCORPORATIONS

AND

CHANGES IN INCORPORATED COMPANIES,

FOR THE YEAR ENDING NOVEMBER 15, 1879.

Line, with Dame of Filing Certificate, Termini, Counties through which the from November 15, 1878, to November 15, 1879.

Termini of road.	Counties through which the railroa. s pass.	Amount of capital stock.	Number.
Jeffersonville and Cincinnati Bush's Station and Columbus Coumbus and Pomeroy, via Logan Buford and Aberdeen	Greene	\$75,000	1 2 3 4 5 6

CATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM NOV. 15, 1878, to Nov. 15, 1879.

•	Location.	Amonnt of capital stock.	Number.
Middletow	n to Madison	\$10,000	1
Cincin ati		100,000 25,000	2 3
. "		25,000 10,000	4 5
		\$170,000	

TIDICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK, FROM TO NOVEMBER 15, 1879.

Termini.	Amount of capital stock.	Number.
New Palestine and Lindale	\$3,000 3,000 \$6,000	1 2

Names of Plank-road Companies Incorporated, with date of filing from November 15, 1878,

Number.	Date of filing certificate.	•	Name of c	ompany.		County v	vhere located.
1	1878. Dec. 17 1879.	Newburgh and	Warrensvi	lle Plank-road	Co	Cuyahoz	a
2	Jan. 21	"	"	46	•••••	66	••••
.							

Names of Banks, Savings and Loan Associations Incorporated, with date vember 15, 1878, to

Number.	Date of filing certificate.	Name of bank or loan a-sociation.
1 2	1879 Jane 20 July 7	Commercial Bank of Cincinnati The South Cleveland Banking Co

Names of Fire Insurance Companies Incorporated, with Date of from November 15, 1878.

Number.	Date of filing certificate.	Name of company.
1 2 3	1879. Jan. 21 28 May 21	Eagle Mutual Fire Insurance Co

CERTIFICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK, TO NOVEMBER 15, 1879.

	Termini.	Amount of capital stock.	Namber.
In Cayab	oga	\$16,000	1
44	(supplemental)	16,000	2
		\$32,000	

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM NO-NOVEMBER 15, 1879.

. Location.	Amount of capital stock.	Number.
Cincinnati (reorganized under free banking act)		1 2
	\$250,000	

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, TO NOVEMBER 15, 1879.

Location.	Amount of capital stock.	Namber.
Mt. Vernon Kenton Greenville	\$50,000 50,000 100,000	1 2 3
	\$200,000	

Names of Printing and Publishing Companies Incorporated, with Date November 15, 1878,

Number.	Date of filing certificate.		Name of company.
1 2 3 4 5 6	July 1 Aug.	888	Daily Labor Publishing Co

Names of Gas Companies Incorporated, with date of Filing Certificate, Loca-

Number.	Date of filing certificate.	Name of company.
1 2 3 4 5 6	1879. Jan. 8	The Lebanon Coal Gas Co Elyria Gas and Water Co Citizen's Gas-Light Co The Delphos Gas-Light Co The Van Wert Gas-Light Co The Van Wert Gas-Light Co

Names of "Common Carrier" Companies Incorporated, with date from November 15, 1878,

Namber.	Date of filing certificate.	Name of company.
.1	157 y. Feb. 13	The Cincinnati Railroad Omnibus Co

COMPANIES INCORPORATED FOR VARIOUS PURPOSES—Continued.

Number.	Date of filing certificate.	Name of company.		
58 59 60 61	1579 Sept. 23 Oct. 1 22 28	The Ohio and Kanawha River Tow Boat Co		
62 63 64 65 66	Nov. 5 10 10 14	The Central Ohio Stock Yard Co		

Location.	Purpose of organization.	Amount of capital stock.	Number.
Pomeroy Toledo Cincinnati Miamisburg and Farmersville Columbus Powhattan Cleveland Miamisburg and Farmersville Cincinnati	River transportation Grain and commission business Cultivating taste for music Erecting and using a telephone General stock-yard business Ferrying across the Ohio River Erecting and using a telephone "" (supplemental) River transportation	\$2,000 100,000 1,500 350 25,000 5,000 50,000 600 20,000	58 59 60 61 63 63 64 65 66

NAMES OF CITIES AND VILLAGES INCORPORATED,

And to which Territory has been Annexed, with Date of Filing Copies of Proceedings and Plats, from November 15, 1878, to November 15, 1879.

Namber.	Date filin		Name of city or village.	County.	Remarks.	
	1878	3.				
1	Nov.		Salesville	Gnornany	Village.	
2		27	New Lebanon	Montgomery	66	
3	Dec.	9	West Mansfield	Logan		
4		9	Crestline	LoganCrawford	Annexation of territory.	
1	1879	9.			•	
5	Jan.	2	Uniontown	Muskingum	"	
6	Feb.	13	New Concord	Guernsey	"	
7	Mar.	13	Euclid		Surrender of corporate rights.	
8		19	Mentor	Lake	Annexation of territory.	
9	Jan.	4	Galion		Advanced to city of 4th grade 2d class.	
10	May	9	Greenwich	Huron	Village.	
11		20	Centerville		Hamlet.	
12	1	30		Tuscarawas	Village.	
13	June	21	New Concord	Guernsey	Annexation of territory.	
14		21	Wharton	Wyandot	Change of name and annexa- tion.	
15	1	24	Roseville	Muskingum	Annexation of territory.	
16	July	17	Rising Sun	Wood	Village.	
17		25	Home City	Hamilton	"	
18	Aug.		Dalton	Wayne	Annexation of territory.	
19			Plain City	Madison	11	
20		25	East Cleveland		Surrender of corporate rights.	

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STATIONERY ACCOUNT.

NOVEMBER 15, 1878, TO NOVEMBER 15, 1879.

Brooms (wisp).	Coet.	,	Sponges (large).	Cont		Sponges (small).	ţ.		Sponge cupe.	Cast		Rubber bands—gross.	Cost.	
35	\$ 6	75	8	\$4	00	164	\$13	36	2 72	l	40	965 <u>1</u> 439 48 2	\$175 141 33 6	732 94 00 19
103	95	50	48	27	00	76	13	00	••••••	• • • • •	• • • • •	205	20	85
137	\$ 34	25	56	31	00	940	96	36	74	18	40	9511	\$377	011
1 30 4	9 0 9	. 00	7 3 1	3	50 50 50	6 18 1	••••	50 80 25	6	••••	95 50	2 1 19 48 159		65 66 19 65 93 10
1 1 3 2 1 3		75 50 25 75 75	1 3 4	1 2	50 50 50 00	5 6 2 36 14 1	8	50 50 20 40 84 07				9 29 5 21 7 23 9	5 3 8	91 73 55 71 99
••••	•••••	••••	1	••••	50	5		50	2	•••••	50	17 1	3	30 67
7 2 1	1	75 50 25	1 1	•••••	50 50	12 2	••••	10 90		•••••		4 6 9	3	71 19 30 75
5	i	25	1 5	2	50 75	8		10	2		25	1 2}	3	88 97
83	\$30	75	29	\$14	75	117	\$ 15	06	19	. \$2	90	3511	\$122	83
54	\$13	50	27	\$16	25	193	\$11	30	62	\$15	50	5994	\$254	18

-				ę,							
Hoap—cak 66,	Cost.	Matches-boxes.	Cost,	Tumblers—number.	Cost.	Paper fasteners.	Cost,	Eyelets—hoxes.	Cost.	Pen racks,	Cost.
45	\$109 58 344 20	1,584	\$127 20	16	\$1 33	11,100	\$21 87	29	\$8 70	25	\$ 5 6
284	22 44		•••••••	94	2 60	36,000 5,000	75 50	•••••		58	13 0
	4 20		••••••	••••		5,000	13 00	•••••	•••••	94	5 0
39%	4 58		•••••••	•••••	• • • • • • • •						
143%	\$480 80	1,584	\$197 20	40	\$3 33	52,100	\$110 37	99	\$8 70	101	\$23 0
252 48 94	\$58 20 10 02 6 00 3 00	139 48 42	\$11 00 4 00 3 50	•••••		100 400 1,000	\$0 20 76 1 95	3	\$6 9 0		• • • • • • •
94 19 19 3 18	3 00 75 3 51	36 72 96	3 00 6 00 8 00	•••••				6	1 89	•••••	•••••
131 388 406 102	20 52 85 12 93 22 94 51	96 168 219 60	6 00 8 00 8 00 14 00 18 25 5 00	6 18	\$6 50 1 50 33	1,000 1,900 1x,300 100	9 00 4 54 98 44 90			3 48	9 8
38 73	9 50 19 22	19 94 192	1 00 2 00 11 20	1	8	••••••••		•••••		1	· · · · · · · · ·
108 48 19	25 02 6 06 2 61	192 60 12	16 00 5 00 1 00	•••••		3,260 3,260 300	. 1 28 6 69 60			•••••	
94 36	6 90 9 90	12 42	1 00 3 50	•••••		1,000	2 25	1	30	4	1 (
6	1 50	94	2 00			100 200	19 38	1	30	•••••	•••••
1,741	\$379 16	1,539	\$193 45	29	\$2 41	22,400	\$48 48	11	\$ 3 30	56	\$11 7
40234	\$101 64	45	\$3 75	11	\$0 92	29,700	\$60 89	1/8	\$5 49	45	\$11.5

STATIONERY ACCOUNT—Continued.

From whom purchased.	Reporters' pads.	Coet.	Assessors' paper—reams.	Cost.	Bequisition books.	Cost
On hand	17	\$9 96	5	\$37 69	2	\$1 20
J. M. & W. Westwater						
Kilbourne, Jones & Co		• • • • • • • • • • • • • • • • • • • •			••••	
L. C. Aston	235	16 24				
Comly, Francisco & Co	200	20 00	• • • • • • • • • • • • • • • • • • • •		• • • • •	
Bindery	1,440	7 2 0 0	00 100 400	070.00	••••	
Cleveland Paper Co	• • • • • • • • •	••••••	80 183-480	759 06	•••••	
Short & Forman. J. R. Mills & Co.		77 10		•••••••	•••••	
R. H. Gardner & Co		11 10			••••	
C. Huston		•••••			• • • • • •	
Brann & Bruck	*********				• • • • • •	
Mann to Dittor						
Totals	2,849	\$ 195 3 0	85 183-480	\$796 66	2	\$1 \$9
To whom issued.						
House of Representatives	576	832 24		•	1	30 10
Board State Charities	6	30				• • • •
Senate	422	24 10				
Railroad Commissioner	52	3 08	••••			
School Commissioner	15	1 05				
Adjutant-General	25	1 25	1	\$7 58		. <i>– – • • • • • • • • • • • • • • • • • </i>
Codifying Commission	120	7 20				
Treasurer of State	84	4 80				
Board of Agriculture	36	2 (14				
Supreme Court	90	7 56				
Supreme Court Clerk	51	2 73				
Supreme Court Commission		2 40				
Secretary of State	164	10 55				
Executive Department		2 40	00 4 30 400			
Auditor of State		3 74	H2 12(4M)	773 16 1		
State Library Fund Commissioners	24	1 20		•••••	• • • • • •	
Board of Public Works	37	2 38	• • • • • • • • • • • • • • • • • • • •	•••••		
Attorney-General		2 46		•••••	• • • • • •	•• - ••
Insurance Department.		60		•••••		
Bureau Labor Statistics	12	72				
Mines Inspector		15				
Supervisor Public Printing	2	1 16				
DADOL 1000 + CONO - CONTROL 111111111111111111111111111111111111	~ ~	42				
Law Library	•	7.0				
Law Library						90 (
Law Library Total issued On hand	1,935	\$114 53 \$80 77	83 123-480	\$780 6 8 \$15 98	1	90

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DEPARTMENT OF STATE, BUREAU OF STATISTICS.

STATISTICAL REPORT

OF THE

SECRETARY OF STATE,

TO THE

GENERAL ASSEMBLY OF OHIO,

FOR THE YEAR 1879.

OFFICE OF THE SECRETARY OF STATE,
COLUMBUS, OHIO, January 5, 1890.

To the General Assymbly of Ohio:

In compliance with the statute, which provides that it shall be the duty of the Secretary of State, annually, to prepare, from the official reports and from whatever other reliable sources to which he may obtain access, as full, accurate, and intelligible tables of the statistics of the State as may be in his power, and report the result of his labors to the General Assembly at its next meeting, I have the honor herewith to submit my third annual report, being for the year ending November 15, 1879.

Very respectfully,

Your obedient servant,

MILTON BARNES,
Secretary of State.

ELECTION STATISTICS OF OHIO.

ELECTION STATISTICS OF OHIO.

VOTE ON GOVERNOR FROM 1803 TO 1860 INCLUSIVE.

ELECTION STATISTICS.

VOTE ON GOVERNOR-Continued.

Year.	Names.	Vote.	Total vote.
18332	Robert Lucas	71,251 63,186	
1834		79,738 67,414 38	(34,40)
1836		92,204 86,158	138,190
l839	Wilson Shannon	107,884	178,569
	Joseph Vance	102,146 7	210,037
1840	Scattering	145,449 129,321 8	,
lä49	Wilson Shannon	119,774 117,902 5,134	274,769
l 844		146,333	242,850
··· ··· ··· ··· · · · · · · · · · · ·	Scattering.	145,062 6,898 11	
1846	***********	118,869 116,484 10,797	300,304
8 48	Seabury Ford	48 148,950 147,888	246,196
850	Scattering	939	297,075
	Reuben Wood William Johnson Edward Smith Scattering	133,093 191,105 13,747 93	
			269,038

ELECTION STATISTICS.

TWENTIETH DISTRICT.

Counties.	Amos	Joseph M.	William H.	Gilbert O.
	Townsend.	Poe.	Doan.	Shove.
Cuyahoga Majority	13,081 5,810	7,271	2,085	4,934

EDUCATIONAL STATISTICS.

17

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L STATISTICS,

TED BY CLERKS OF COURTS.

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JUDICIAL STATISTICS,

AS REPORTED BY CLERKS OF COURTS.



SOCIAL STATISTICS,

AND

STATISTICS OF BENEVOLENT AND REFORMATORY INSTITUTIONS.

IMMIGRATION INTO THE UNITED STATES FROM 1861 TO 1878.

During the year 1878 the number of persons of foreign birth who enigrated to the United States was 153,207; the number who arrived in 1877 was 130,526: the increase in 1878 over 1877 was, therefore, 22,681. This increase is another evidence of the improvement in business in the United States in 1878.

The following table, compiled by the Secretary of the American Iron and Steel Association—from the reports of the Bureau of Statistics, shows the number of emigrants who have arrived in the United States in each year since 1861:

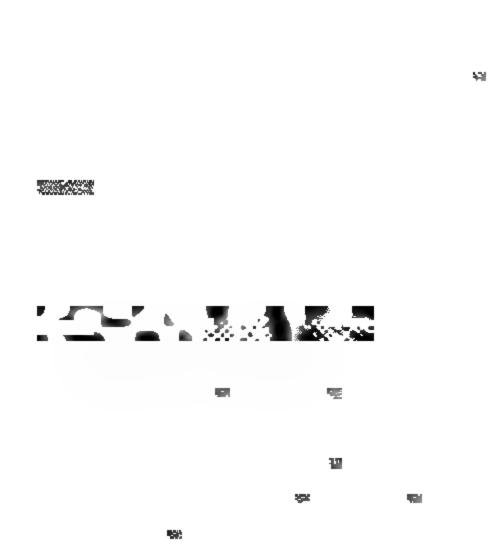
Calendar years.	Number of immigrants.	Calendar years.	Number of immigrants.
1861	89,720	1870	356,303
1862	89,005	1871	346,93 8
1863	174,523	1872	437,750
1864	193,191	1873	499,545
1865	248,394	1874	260,614
1866	314,840	1875	191,231
1867	293,601	1876	157,440
1868	289,145	1877	130,526
1869	385,287	1878	153,90

LETTERS OF GUARDIANSHIP IN OHIO, ETC--Continued.

Number of Persons sent to Ohio Hospitals for the Insane—Continued.

	,	ito.		red.	
Counties.	Males.	Females.	Males.	Females.	Total.
Monroe Montgomery Morgan Morrow Muskingum Noble Ottawa Paulding Perry Pickaway Pike Portage Preble Putnam Richland Ross Sandusky Scioto Seneca Shelby Stark Summit Trumbull Tuscarawas Union Van Wert Vinton Wayne Wayne Williams	2 31 15 34 65 93 72 57 67 1. 18 912 4 31 73 76	38227223913 457973*19964 27573	1	1	5 6 9 14 23 4 10 6 10 14 15 13 2 27 18 18 8 4 3 14 9
Wood	9 5 661	2 4 570	14	13	11 9 1,271

^{*} Not reported.



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Table exhibiting the Number of Girls sent to the Industrial Home at Weits Sulphur Springs by the Probate Judge of each County in Ohio for the Year Ending March 31, 1879.

Counties.	to	8 to	9 to	10 to	11 to	12 to	13 to	14 to	15 t o	Tota
	8,	9.	10.	11.	12.	13.	14.	15.	16.	
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Belmont	1	1	1	1	1			2		1
Butler				1		1	2			1
larke				1		1	1			
linton	()	1	1	(1	1			1	1
oshocton				1	1	11	ļ	1	1	1
rawford	1	121	•••••	1	1 * 1	11			1	1
nvehore	1	1 - 1	1	1 1	1	2		3	3	1
uyahoga	[]	11	1	1 - 1	$\frac{1}{2}$	2 2	1	3	2	1
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Contgomery	1	1	1	1		1			1 1	1
luskingum	1	1	1	1	1	8	3	1	1	1
088		1	1	1	1	1	1		1	ł
cioto		1	1	1		1	!	\	۱ <u> </u>	l
helby		1	2	1 - 1		1			1	1
tark		1	1 ~ 1	1	1	1			1	1
uscarawas		1	1		1 1	1		1		1
-	1 1	1				1	1 1			1
Varren		(·	1	1 1	1	1 - 1			1
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Mak 1		1		10	10	15		1 .		
Totals	1	1	4	10	13	15	9	11	7	•

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EXCLATION OF IMBECILE YOUTH, COLUMBUS, OHIO, PROM NOVEMBER 15, 1878, TO BOVEMBER 15, 1879.

	Males.	Fomales.	Total.
Number of pupils in the institution November 15, 1878 Total number current year Number discharged Number died Number remaining in the institution November 15, 1879	285 24 309 20 4 265	190 9 199 22 5 174	675 33 568 42 9

Mortuary Record, November 15, 1878, to November 15, 1879.

	Consumption.	Convulsions.	Paralysia.	Spinal disease.	Bronchitta.	Total number of desths.
MalesFemales	1 2	2	1	1	1	4 5

Age of Inmates Admitted Current Year.



Cause of Insanity.

/ Mortuary Record, November 15, 1878, to November 15, 1879.

3

Age of Patients Admitted Current Year.

									
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<u> </u>		<u> </u>	<u> </u>				<u> </u>		
Males	ı	12	52	ΨĞ	32	27	13	6	1
Females	3	6	38	62	49	31	5	1	
		ı	<u> </u>	<u> </u>	!	 	!	ı	ا ا

SOCIAL STATISTICS.

Crimes-Continued.

877

Mortuary Record, November 15, 1878, to November 15, 1879.

Age of Convicts Received Current Year.

	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 56.	55 to 60.
*** * * * * * * * * * * * * * * * * * *	25	5	57	275 11	163	50	9	5	1



VITAL STATISTICS

AND

NOSOLOGY OF OHIO.



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88	13-	101	110	143	152	102	111	148	148	06% 06%	151	179	118	133	<u> </u>	16	129	33	146	26	35	5		13,149
198	145	86	121	140	193	127	121	132	186	310	178	180	143	134	130	73	151	221	129	86	191	103	<u> </u> 	14,710
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Fike	Portage	Preble	Putnam	Richland	Кове	Sandusky	Scioto	Seueca	Shelby	Stark	Summit	Trumbull	Tuecarawas	Union	Van Wert	Vinton	Warren	Washington	Wayne	Williams	Wood	Wyandot		Totals

Table showing the Nativity of Deceased Persons, as reported by the Probate Judge of each County in Ohio, for the Yrak

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Harrison			13			:
Henry						:
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Holmes				7		:
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Montgomery						:
Horgan						•
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Noble Mobile			FII :			:
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TABLE SHOWENS THE OCCUPATION OF DECEMBED PERSONS AT THE OF DEATH-COMMUNICAL

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Coanties.	, west a lad	Adems	Aphland	Ashtabula	Auglaize	Belmont	Brown	Chroil	Champaign	Clermont	Clinton	Columbiana	Crewford	Cuysbogs	Darke	Delaware	Mrte	Pairfield	Pare Mile		

ES OF DEATHS IN EACH COUNTY, ETC.—Continued.

Class	3 —	-Local	dia	PARAS
C1030	υ.—	LUVVAL	C 1D	C 65003.

Order 5.	-Urinar	y organs.
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3. Bright's dis- ease.		5 Calculus	(stone, gravel, etc.).	6 Inflammation		7. Kidney die-	e 2806.	Total deaths,	Order 5, Class 3.	
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NOSOL: GICAL ARRANGEMENT, SHOWING THE NUMBER AD

		Class	3.—Lo	ocal dis	icaecs.			
	C	Order 6.—Generative organ.						
. Counties.		ey.	2. Diseases of the	womb, etc	Total deaths, Order 6, Class 3.			
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CAUSES OF DEATHS IN EACH COUNTY, ETC.—Continued.

Class 3.—Local diseases.

Or	der 7.–	-Organ	s of lo	comoti	on.		Order	8.—In	t egume	ntary	syst er	n.	
	of the joints.	2. Joint diseases,		Total deaths.	Order 7, Class 3.	1. Phlegmon	(carbancle, etc.)	1	Z Cloer.	3. Skin diseases.	eto.	Total deaths.	Order 8, Class 3.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	•••••		••••	•••••		•••••	1	•••••	•	•••••	••••	••••	1
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	•••••	•	•••••	6	•••••	•••••	1 2	1	•••••	••••	••••	2	1
1		4	1	5	2	•••••	1	•••••	•••••	•••••		••••	1
		1	•••••		•••••	•••••	•••••	•••••	•••••	•••••		•••	1
1		1	•••••	1	•••••	1	1	2	••••	1	••••	1 2 1	1
,							• • • • • •	•••••				1	2

CAUSES OF DEATHS IN EACH COUNTY, ETC.—Continued.

Class 4.—Developmental diseases.

-	Order 2.—	-Develo	pmen lults.	tal disc	1888	Order 3 —Detail diseases of	velopmen- old people.	Order 4.—De tal diseases o	velopmen- fnutrition.	
	(menatrual disease)	2. Childbirth.		Total deaths, Order 2, Class 4.		Old age.—Total		Atrophy and debility. — Total deaths, Order 4, Class 4.		
M.	F.	М.	F.	М.	F.	м.	F.	M.	F.	
	3		26331 221 151231185131		26331 221 15423116513132	6 8 11 13 9 11 12 7 5 7 5 22 2 8 5 13 35 7 13	7 8 10 19 7 9 10 8 11 4 5 24 6 15 39 11 8 7 8	1 4	3 1 1 2	
	1		1 1 3 9 1 2 1 2 1 3		10 4 1 1 1 2 3 9 1 1 2 2 1 3	13 5 10 4 7 7 11 4	10 2 7 13 7 3 50 5 8 5 7 1 18 6 6 6 6 5 7	2 9	1 9 7	

Nosological Arrangement, showing the Number And

			•		Cla	- 188 5.	Vi	olont	dea	ths				
		Order 1.—Accident or negligence.												
Counties.		1. Fractures and contusions. 2. Burns and sculds.			3. Poison. 4. Drowning (and lest at sea.)		lest at sea)	5. Suffocation and strangulation		6. Oth rwise.		Total deaths. Or-	Total deaths, Or- iler I, Class 5.	
	M.	F.	M .	 F. 	M .	F.	M .	F.	M	F.	M.	F.	M	F.
Adams	· • • • • • •					! !••••	••••				1	1	: 1	1
Allen	2		2		· ·		1		1	2	9	2	11 7	3
Athens			1	2		ī		1			5 5		2 1	3
Belmont			3 2	4	1		3				10	1	16	
Butler		i	1 1	1		1	1	••••			!	1	7	1
Champaigu	1	. 3	! 	; •-•	: 		. 1	••		2		1	4 2	1 5
Clinton	1	1	i	•	- • •				••••		1		4:	
Columbiaa			' . 	. 1		• • •	, '					1	l	=
- • • • • • • • • • • • • • • • • • • •	18			ì	i	• ·	· ;	2	. 2	•	1 1	• • •		
Deficie de la Defension de la Companya de la Compan		• •		;		•	· ·		-		••			
External constants	. 1	· • • • • • • • • • • • • • • • • • • •		. 1			1		-	- • • ·	: !			
Problem III	•		;·					• •		-	. :	•	15	•
Fulton III II Galda IIII II Georges III II III	·• !	1	:	.•	• • ·	• • • •					,	I	; i,	· •
Giberra	;3	4			·	•••	l 3	•	-	; ••		•	- 1 - 1	. i
I millon Har nock	. 32	;	*	l	1	l :	; ;	;		; i4	77	•	133	- a; l
Hardin Harrier		, i			•		1		' . .	• • • •		•	1	- 1
lie . Highland	. 1		1	2			1		1		3	1 1	3	:3
Ho king						••••	l		¥ ا	 2 		•••	, 3 , 2	·
H trott	i i		1 5	; ; ;	 	••	1	• • •		••••	2 2 5	2	10 3 14	
Knox	1	1		i							3		3	1 1
Licking	- I -	·		3	1	· • • • • • • •	1 2			1	3	···i	9	;>
•		••	1	. •		' • • • • ;	•	••••		·	6	1	6	1

DEATHS IN EACH COUNTY, MIC.—Continued.

Class 5.—Violent deaths.

	ers 2, Class	er 7.	Orde	or 6.	Orde	or 5.	Orde	er 4	Orde	or 3.	Orde
	Total deaths, Orders 2, 3, 4, 5, 8, and 7, Class			deaths.	All other violent		1	Salciae.			
F.	м.	F.	M.	F.	М.	F .	M.	F	М.	F.	М.
	4				· · 				2		
2	41	25	42 13	i				2	2		
10	14	10	13	••••	1		•••••				• • • •
T.	10 4	13	10	• • • • • •	3		••••	1	••••	• • • • •	
• 7	6	6	5			• • • • •					
	6 8	6 6 37	5 8 41			•••••			• • • • • · j		
3	45	37	41		4						.
	13	7	13		••••				• • • • • •	•••••	• • • •
111	41	12	13 29		2	••••			7		3
1	7	9	7					1			
1	11	18	11		• • • • •	••••		. .		'	
T	19 5	15	11 2	2	5		• • • • • • • • • • • • • • • • • • •	• • • • •	2		1
(19	3 9	18		1				4 ;		
1' 1' 2'	30 27	19	29		• • • • •				1		
2	27	23	25			•••••					2
2	45	29	45	• • • • •					!	ⁱ	
1	19	14	18 1	• • • • • •				2	, .	- • • • • • • • • • • • • • • • • • • •	• • • •
	31.		•					~	3		· • • ·
2	37	21	32	••••	5	•••••		1		1	<u>.</u> .
1	1	2				 	. 1		• • • • •	· ·	• •
1	28 2	14	28		•••••		•••••	1	2	•••	
3	34	31	26		7				1		
	11.							· • • • ·	ī		
1	35	17	33		•••••	•••••		 	2		
3· 1·	37	27 17	31 10	2	4 2			1	2 5	• · • • • · · · · · · ·	• • •
1	18 3 9	4	10		2				2		
	9 .				7				2	• • • •	
1	21	14	19	•••••			1		1	• • • • ·	-
1	15 8	19 18	15 7			•••••		1	••••		· - • ·
2	15	19	12	1	3	•••••		1	$\frac{1}{2}$		1
ĩ	6	13	3		1				2		- ·
			•••••		••••	•-••		 			
	20	8	17	•••••	1	••••		• • • • • • • • • • • • • • • • • • •	2		• • •
	6	4	2 5	• • • • •	•••••				1 1		
112	1448	1083	1250	17	53		4	15	81	5	27

TICES OF THE PRACE FOR THE YEAR ENDING JUNE 30, 1879.

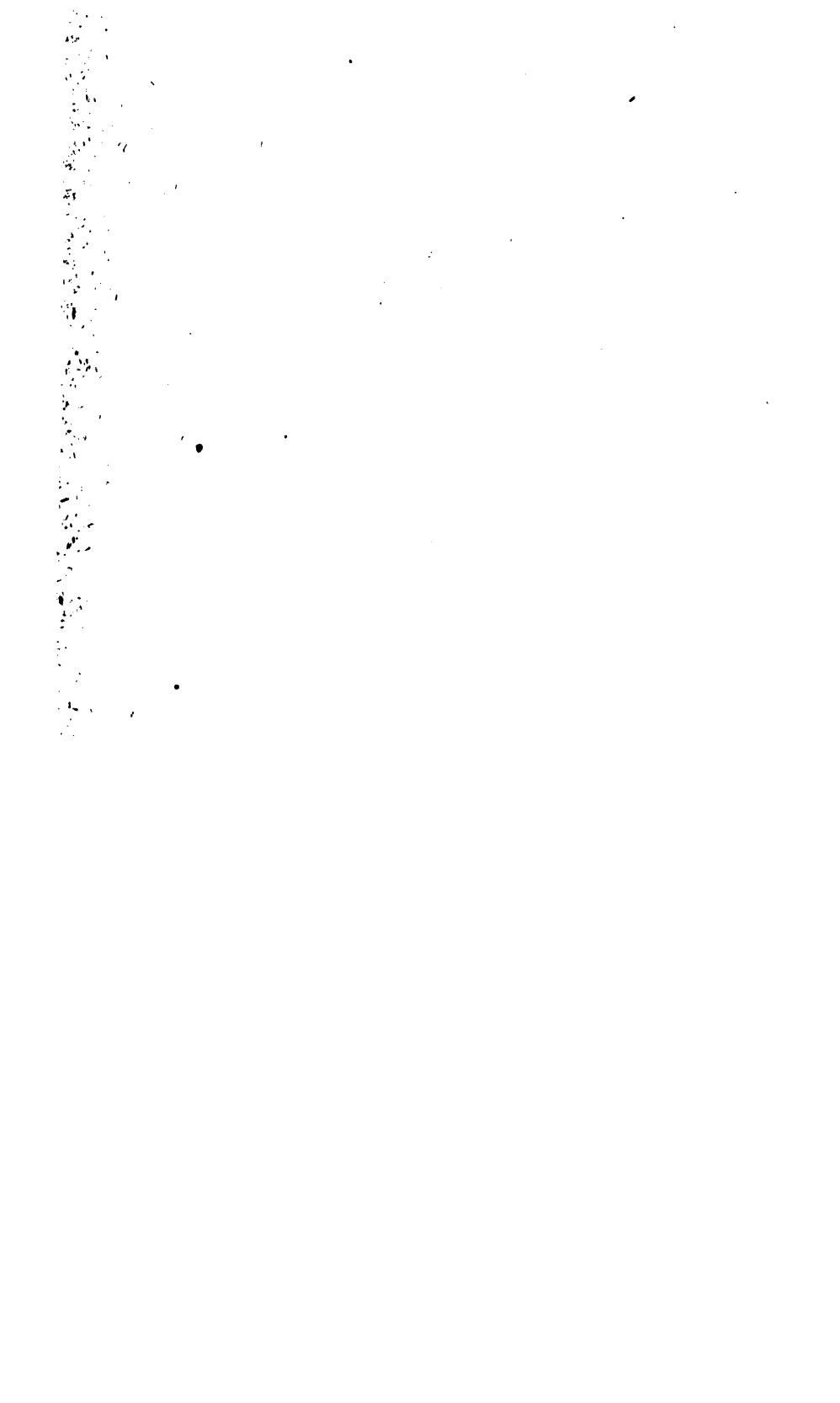
.					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				ab
Suicide.	Killed by accident.	Other sudden deaths, and deaths from nnknown causes.	. Males.	Females.	Namber foreign born.	Number native born.	Nativity unknown.	Total.	Superinduced by intemperance
••••			•••••		······································			• • • • •	• • • • •
			• • • • • • • • • • • • • • • • • • • •					• • • • • • •	••••
••••	6	1	6	1	4	3		7	1
2 1	2 3	4	⊱ 4		2 1	3	3	8 4	1
2	7		9	•••••	2	7		9	• • • • • • • • • • • • • • • • • • •
•••••	ī		1		1			1	1
1	3	3 1	5 2	1	2	4	1	6 2	2
1	3	1	2	2	3 2	1		4	
	3		1		z	1		1	
3 17	1 57	1	4 66	14	36	4 43	1	4 ∂0	
• • • • • •	1		Ý		2			2	1
- -	1			•	•••••	1		! 	: :
6 1	13	1 1	20 4	5 5	17 3	3	5	' 22 6	8
6	20	14	34		30	6	6	42	
2	4	3	9		••••••	9		9	i 1
2	4		6	1	•••••	6	1	7	
35	4 48	137	5 19∄	32	84	119	5 24	5 230	1
1	1 2		3	2	1 5	2 4	!	3	1 0
• • • • •	i	i	2	•••••	,	2		2	
1			1		•••••	, 1	$ \cdots$ 2	1. 2	
- 	7		5	2		7		7	
1		1	, <u>1</u>		ala · · · · ·	1		1	1
4	16	5	16	11	2	1	21	27	;
	1	2	3		ì	2		3	
1	4		1 5 2	1 2 2	1	3 5	• • • • • •	6	;
4	1 1			2 9	 	4	••••	4]
2	15	2	19 37 3	, L	4	2 15	1	20 53 3	ું છ
11	21	15	37	16	24	30		53	. છ

TABLE SHOWING THE NUMBER OF INQUESTS HELD IN OHIO BY CORONERS A

	Number of inquests held by justices of the peace for the year ending June 30, 1579.						
Counties.	Homicide.	Saicide.	Killed by accident.	Other sudden deaths, and deaths from unknown causes.	Total.		
Mahoning	2	6	8	5	2		
Marion	1	· · · • • • • • • • • • • • • • • • • •		1	Ì		
Medina			1				
Meigs		1		1	1		
Mercer	. .						
Miami	• • • • •				• • •		
Monroe		. 2	I		1		
Montgomery	1	3	5	1	1		
Morgan	1				·		
Morrow	• • • • •		•••••				
Muskingum		1	• • • • • • •				
Noble	1	1	1		·i		
Ottawa		1		1			
Paulding	· · • • ·			3	1		
Perry	2	3	5	1	1		
Pickaway					1		
Pike				1	1		
Portage			2	i .	1		
Preble	1						
Putnam		1	1		i		
Richland		1	4	1			
Ross	·	2	2	2			
Sandusky			1		i		
Scioto	1	. 2	7	1	I		
Seneca				i			
Shelby					1		
Stark		• • •	i 		;		
Summit	1	2	2				
Trumbull		3	1		i		
Tusc rawas	2	1	6	ļ			
Unio			1	1	!		
Van Wert		1	2	1			
Vintor	1	2	1	_			
Warren	1		Ī	1	!		
Washington							
Wayne			1		. i		
Williams	1	ī					
Wood	ī	$\tilde{2}$		2	ı		
Wyandot	ì	1	5	Ĩ	i		
				i	-¦		
Totals	49	126	207	225			
	• • •			, ~~,,	1		

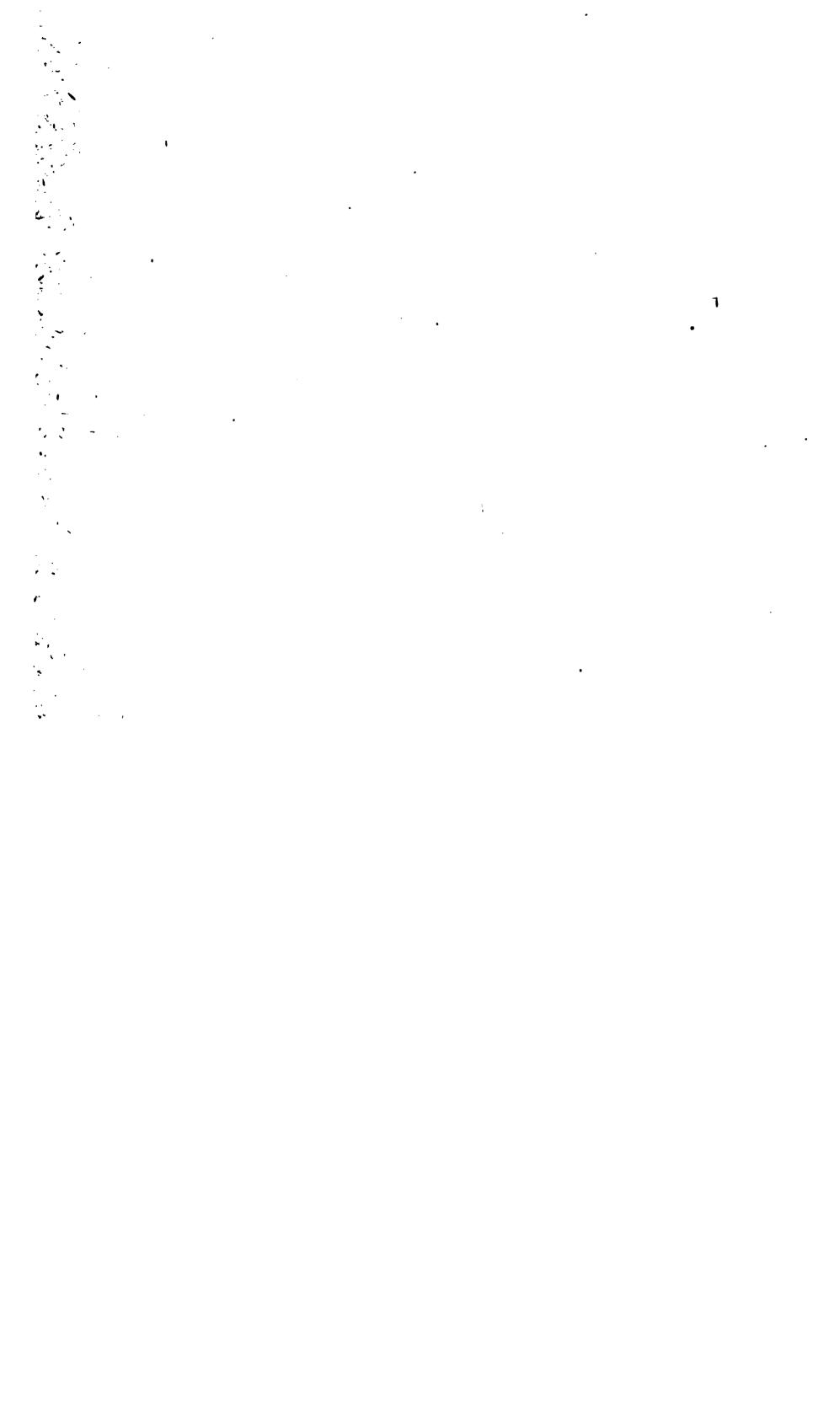
CES OF THE PEACE FOR THE YEAR ENDING JUNE 30, 1679—Continued.

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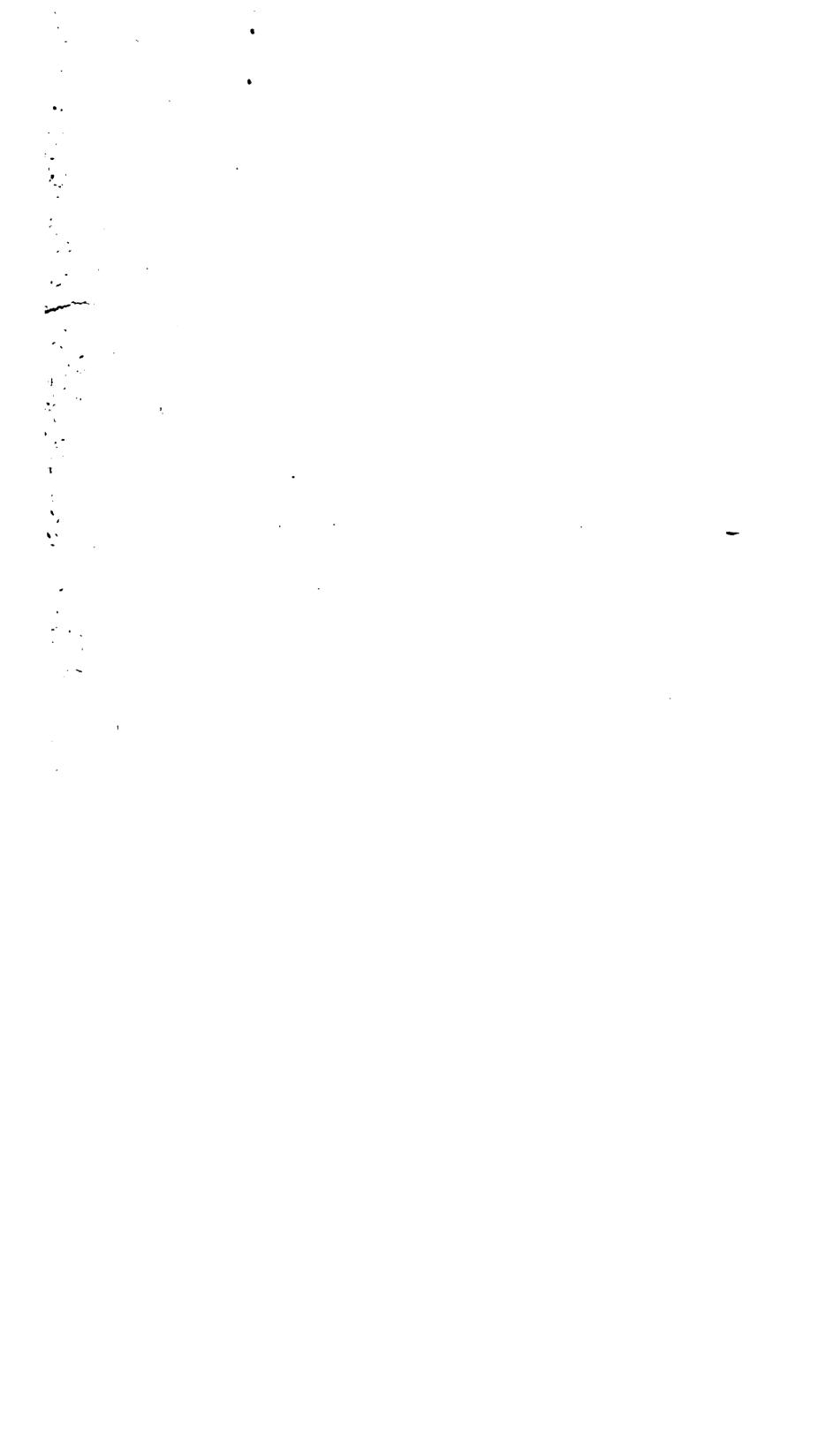


PUBLIC DEBTS, PROPERTY,

TAXATION.



BANKS AND BONDS.



RAILROADS, TURNPIKES,

AND

PLANK ROADS.

32 .

ONVEYANCE STATISTICS,

AS

REPORTED BY COUNTY RECORDERS.

CONVEYANCE STATISTICS.

TABLE SHOWING THE NUMBER OF MORTGAGES, ETC.—Continued.

Counties.	Number of mortgages 1000rded.	Amount. secured.	Number of mortgages canceled.	Amount released.
	No	Amount.	No.	Amount.
3	292	\$1,608,461	176	\$144,950
omery	1,509	1,620,617	1,141	2,057,693
a	226	161,584	142	135,856
T	395	306,914	199	300,691
ogam		589,741	412	494,723
	1	206,851	105	99,777
	1	388,662	292	324,948
ng	1 !	125,070	117	47,582
••••••••••••	355	261,341	175	43,470
ray	407	490,836	239	390,255
•		107,504	40	21,099
6 	728	597,951	550	750,791
	477	512,902	172	324,220
n	422	333,552	270	195,034
nd	591	473,400	304	395,636
••••••••••	543	670,6≿3	214	336,810
ıky	£ 06	49≺,916	397	348,566
	702	1,006,659	188	166,971
	828	137,856	723	126,429
•••••	506	3 83,240	266	2:2,662
	1,019	1,624,225	763	965,341
•	I	576,013	643	c9d,144
ull	570	557,104	365	656,568
awas	674	473,579	502	479,828
•••••••••	427	479,121	282	368,913
ert	448	201,289	334	216,517
**** **** * * * * * * * * * * * * * * *	141	80,148	71	36,572
1		£95,313	376	501,759
igton	521	334,774	294	177,666
	605	740,086	393	593,000
ns		262,242	272	255,650
•••••••••••••••••••••••••	673	507,291	361	317,113
lot	444	467,496	327	377,431
Totala	47,336	\$49,648,586	33,030	\$42,364,832

TABLE SHOWING THE SEVERAL AMOUNTS OF RAILROAD MORTGAGES RECGRDED AND CANCELED IN OHIO, AS REPORTED BY THE RECORDER OF MACH COUNTY FOR THE YEAR ENDING JUNE 30, 1079.

Name of railroad.	Mortgages recorded.	Mortyages canceled.
Alliance and Lake Erie Railro d	\$150,000	
Ashtabula and Pittsburgh Railroad	1,500,000	
Central Passenger Railroad Co (street railroad, Toledo)	50,000	
Cincinnati and Eastern Railroad	3,500,000	
Cincinnati Incline Plane Raitroad	125,000	
Cincienati and Muskingum Valley Railroad	1,500,000	
Cleve and, Tuscarawas Vailey and Wheeling Railroad Co	700,000	\$1,250,000
Cleveland, Iuscarawas Valley and Wheeling Railroad Co.*	1,600,000	1,200,000
Cleveland and Pitisburgh Railroad		500,090
College Hild Railway Co. (street railroad, Cincinnati)	60,000	
Columbus, Scioto and Hocking Valley Railroad	1,100,000	
Consolidated Street Rairway Co. (Cincinnati)	15.0,000	
Delphos and Kokomo Railroad	91,000	0.0.0
Lake Erie and Louisville Railroad.	300,000	30,000
Ohio Central Railroad t	1,153,023	- 000 000
Pennsylvania Company :		7,000,000
Pittsbargu and Lake Erie Railroad	2,000,000	
Scioto Valley Railroad	5(0,000	
Scieto Valley Railroad	1,300 000	600 000
Springfield, Jackson and Pomeroy Railroad	900,000	€00,000
Springfield, Jackson and Pomeroy Rathoad	450,000	\$19,000
Springheid, Jackson and Pomeroy Railroad **	450,558 50,000	
Toledo and Ann Harber Radroad	750,000	
	210,. 00	
Toledo, Delphos and Indiana Railroad	2,500 210,000	
Toledo, De phos and Indiana wailroad	2,500 1,600,600	4,300,000
Youngstown and Connotton Valley Railroad.	750,000	4,300,000
Toungetown and Connecton Aguel Maintond		
Totals	\$21,102,581	\$15,609,600

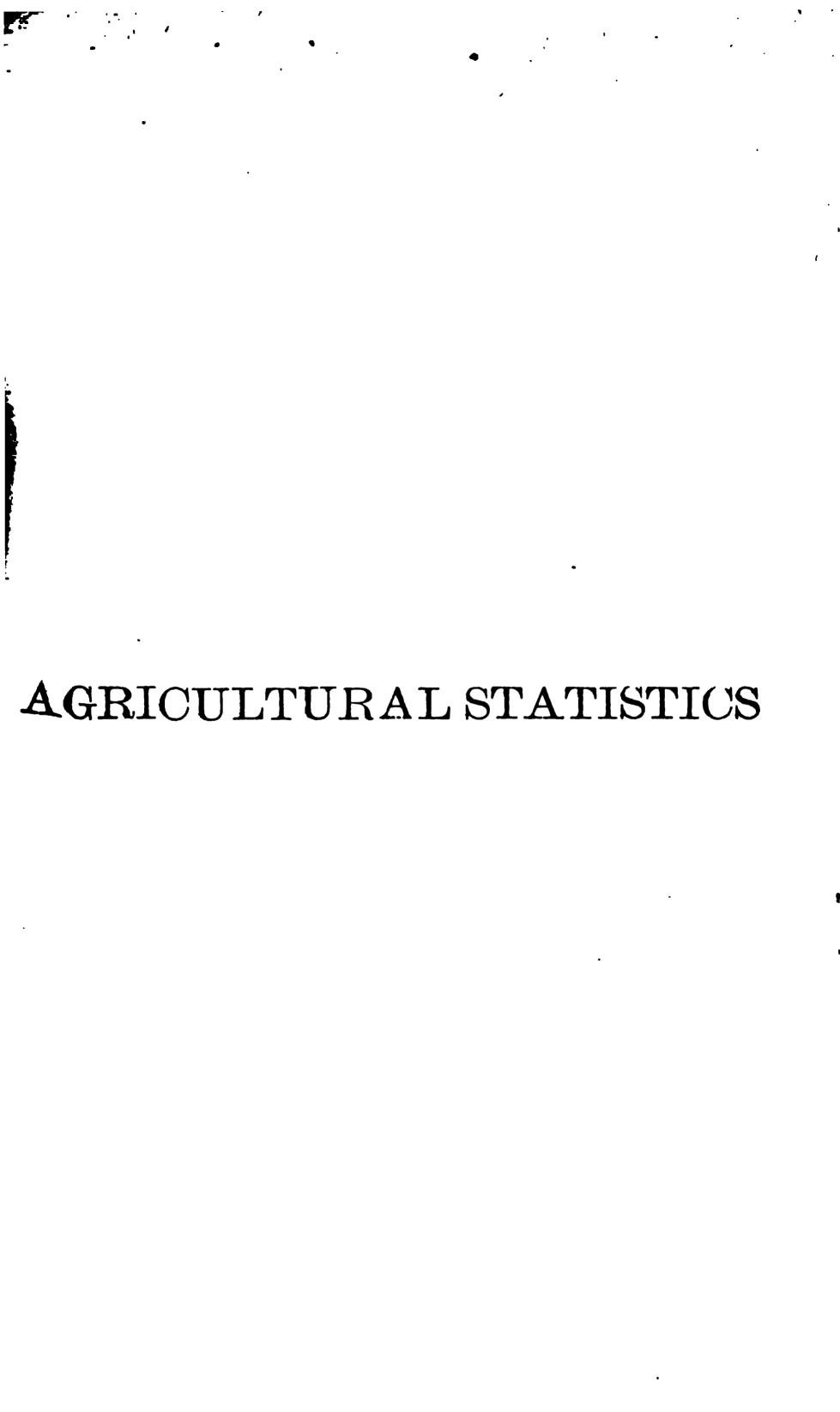
Note.—As railroad mortgages are recorded and canceled in each county through which the road passes, and as many of the smaller amounts in such mortgages are included in the largest sum named on the same road, it is impossible to give an exact set total either in mortgages or cancellations.

^{*} Reported from Stark county.

[†] Reported from Knox county.

[‡] Holmes county reports a cancellation of \$3,000,000 for this company, but as all of the other counties report but \$7,000,000, the latter is presumed to be the correct amount. In some counties, also, this cancellation is reported under the name of the Pittsburgh, Fort Wayne and Chicago Railroad.

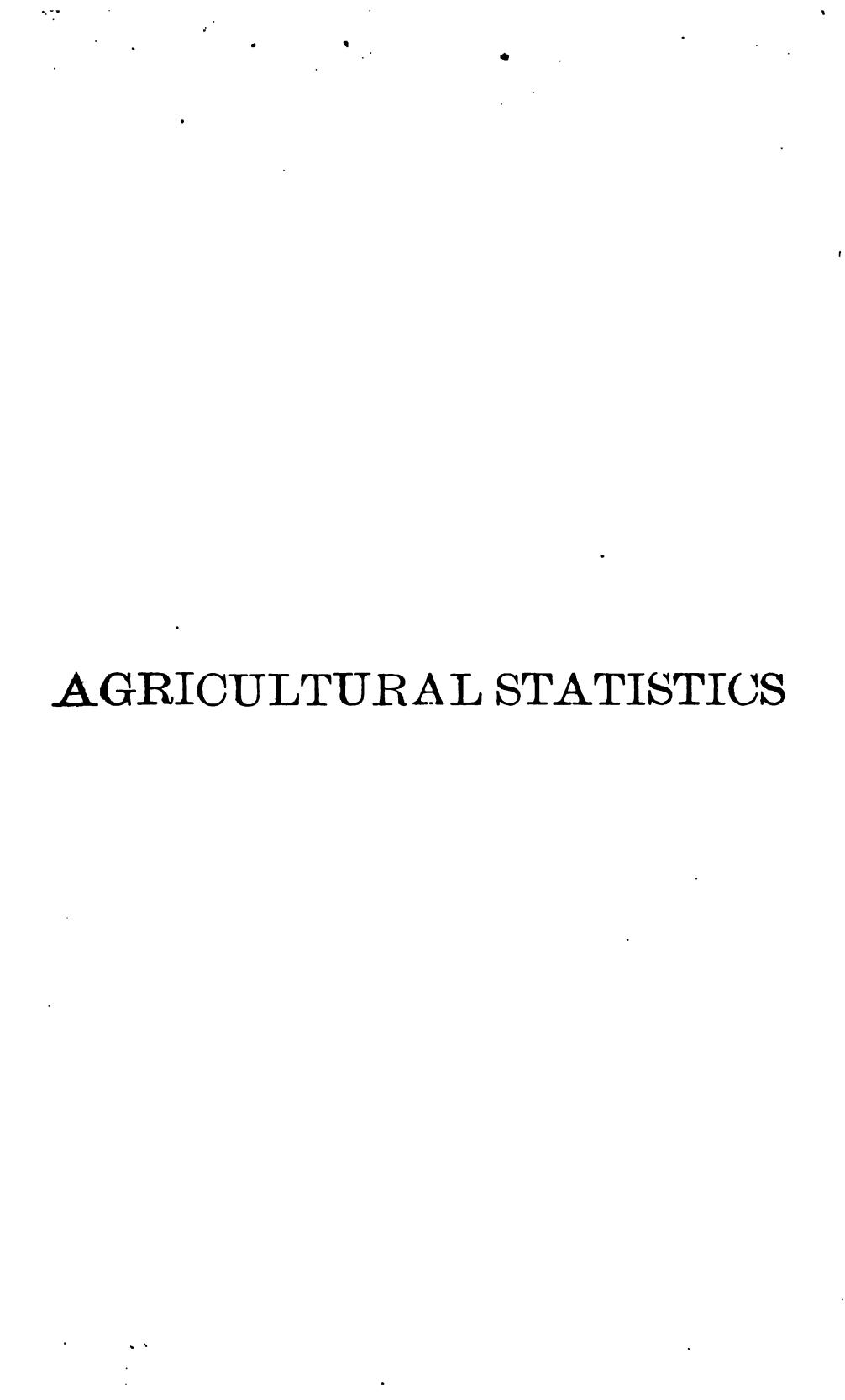
^{**} Reported from Ross county.



NUMBER OF LEASES RECORDED IN EACH COUNTY—Continued.

	Lease	s of lands.	Leases of city, town, and village lots.	
Counties.	Number.	Amount of consideration.	Namber.	Amount of con-
Meiga Mercer	28 50	†	18	\$ 8,775
Miami	2	\$218	7	4,284
Monroe	••••••			
Montgomery	10	†	35	†
Morgan	2	350		
Morrow	6	2,301		
Muskingum	15	6,120		
Noble	8	1,070		
Ottawa	13	418	38	4,55
Paulding	20			
Perry	7	†	3	†
Pickaway	5	3,599	1	100
Pike	6	7,341		
Portage	8	596		
Preble	5	1,840	1	100
Putnam	5	1,000	1	†
Richland	3	600	4	1,55
Ross			14	18,56
Sandusky	••••			
Scioto	13	4,312	4	7,000
Seneca	6	975	21	3,40
Shelby	2	2, 900	5	14,88
Stark	7	†	20	†
Summit	15	†	14	†
Trumbull	4	†	3	40
Tuscarawas	10	† †	5	†
Union	4	†	1	43
Van Wert	10	661	2	3,02
Vinton				
Warren	1	†	6	5,676
Washington				
Wayne	8	4,000		
Williams	••••			
Wood	9	_ †	4	2,96
Wyandot	4	5,157	5	2,610
Totals	757	\$211,820	1,112	781,147

[†] Amount not reported.



EAT, RYE, AND BUCKWHEAT PRODUCED IN OHIO IN 1878-C intinued.

	Wh	Wheat.		Rye.		Buck wheat.	
nnties.	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels	
	6,395	124,272	f 63	8,650	306	4,67	
	16,735	114.394	1-1	1,312	62	49	
	30 900	470, ⊭51	1,342	19 0-5	493	5,60	
	30,535	569,474	37.3	5,916	149	1,03	
	18,796	395,963	227	3,803	50	20	
	12,406	195,516	569	9,434	£0 3	10,74	
	9,399	177,741	914	14,438	35	38	
	11,470	172,141	7:0	9,604	250	2,35	
	17,699	334 867	117	1,955	44	50	
	16,553	331,757	4:.0	7,5-2	5.3	41	
	19,003	210,207	630	5,042	194	2,79	
	24,3-1	375,453	51.0	8,028	109	91	
	36,672	685 ,19 0	(93	10,115	94	76	
	16,805	189,118	2,233	19,924	268	2,22	
y	36,069	5-4,-12	460	6 623	17	15	
	16,294	236,977	441	4,403	149	1,40	
	13,696	249,313	661	8,458	130	79	
	24,118	417,277	1,025	13,799	166	1,42	
• • • • • • • • • • • • • • • • • • • •	14,552	1-6,-91	597	6,918	100 100	t1	
• • • • • • • • • • • • • • • • • • • •	13,650	255,121	356	6 679	79	1,03	
	7,704		49±	6,405	243		
	16,207	115,367 209,006	891	10,565	_	2,24	
• • • • • • • • • • • • • • • • • • • •	. ,	•	521		170	1,66	
	39,637	652,593		7,256	50	73	
	11,570	\$17,847	203	1 237	64 103	1.50	
••••••	15,823	274,±90	604	8,363 5,052	192	1,50	
	29,956	422,757	472	5,958	64	44	
• • • • • • • • • • • • • • • • • • • •	22,077	378,613	1,252	19,557	159	1,67	
	36,0 0	669,587	730	9,499	143	1,11	
• • • • • • • • • • • • • • • • • • • •	31,214	4 ≻0,717	8 9	8 40ñ	48	43	
	41,474	F35,523	291	5,075	195	1,68	
	11,6.5	114,445	41	183	94	71	
	59,969	1,235,963	161	2,936	64	65	
	27,561	454,370	386	5,00h	260	1,91	
	52,925	1,001,666	470	6,779	71	73	
	25,975	51~,979	352	5,150	41	1,83	
••••••	9,976	161,801	564	6,9~6	4-1	4,19	
· • • • • • • • • • • • • • • • • • • •	32 7.33	567,480	601	7,310	184	1,14	
	17,442	304,170	273	4,407	74	63	
	15,721	251,823	971	12,932	267	2,45	
	7,599	73,601	328	2,562	177	1,70	
•••••••	26.392	392,482	60B	5.915	195	2.27	
1	28,916	403,583	2 266	20,⊱96	360	4,03	
	4-,962	1,035,562	403	12 023	65	48	
	28,597	501,098	759	2,339	198	1,92	
	24,417	449,296	971	18,060	734	8,37	
1.	29,103	633,919	117	1,225	50	69	
	2,123,958	35,218,783	55,041	756,502	16,153	165,44	

AGRICULTURAL STATISTICS.

OATS, BARLEY AND CORN PRODUCED IN OHIO IN 1878-Continued.

nties.	Oa	ts.	Bar	ley.	Co	rn.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.	
an.	9,446	272,650	96	2,558	36,229	1,371,174	
	6,418	145,223		2,003	21,291	735,733	
	3,299	93,719	157	7,974	13,102	368,540	
,	3,688	85,683	228	7,179	11 062	224,960	
	4,294	98,066	116		20,642	-	
		72,013	92	6,859	,	743,256	
y	2,251			3,190	92,076	3,726,238	
••••••	6,830	126,759	46l	15,980	29.847	828,700	
•••••	14,419	497,068	36	733	13,360	706,966	
• • • • • • • • • • • • • • • • • • • •	14,790	462,856	769	22,681	53,747	1,973,987	
	5,701	153,544	57	1,518	35,773	1,071,659	
	23,738	806,274	146	4,163	31,243	1,020,419	
	3,367	67,269	40	1,745	7A,169	2,761,170	
7	11,156	373,F25	270	6,357	31,2:3	1,226,374	
	8,475	135,274	186	5,167	24,085	559,247	
	16,967	572,663	73	1,697	39 205	1,360,511	
	16,651	557,904	777	19,266	42,215	1,584,378	
	25,4 39	1,018,082	476	15,264	27,748	1,477,539	
	14,244	542,372	63	14,010	15,422	1,077,945	
1	16,304	561,842	66	4,275	14 99명	934,028	
788	18,610	621,542	136	3,252	21,466	822,763	
	7,3 00	223,443	4	180	51,430	2,130,561	
t	8,193	226,709	90	2,039	30,056	`809,70 7	
	3,120	59,977			14,419	375,631	
	10,007	292,252	5,012	191,402	54,030	2,374,900	
ton	10,476	212,610	j '3	109	25,516	668,193	
	24,123	912,403	285	6,870	32,496	1,234,570	
	13,591	437,289	38	1,0:19	24,900	838,348	
	14,867	450,618	531	11,800	52,503	1,880,521	
	8,326	283,180	17	315	35,313	1,360,716	
tals	937,315	29,671,231	38,461	1,265,299	3,039,380	114,839,127	

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHELS OF WHEAT AND COMPARATIVE PRODUCED ANNUALLY, FROM 1850 TO 1878, INCLUSIVE.

Year.	Bushels of wheat.	Average number of bushels to acre.	Bashels of corn.	Average number of bushels to sore.
1850 1851 1852 1853 1854 1855 1856 1857 1853 1860 1861 1862 1863 1864 1865 1866 1867 1867	31,500,000 25 309, 25 23,013,737 17,115,311 11,8-9,110 19,569,320 15,333,837 25,397,614 17,655,453 13,347,967 23,640,356 20,055,424 29,764,857 20,452,410 15,541,3-5 13,234,139 5,524,747 13,350,726 16,480,059 26,499,729 18,726,341 22,274,378	18. 15.2 14.1 12. 8. 13.81 10.2 14. 10.4 7.3 12.8 11. 12. 11.36 9.33 9. 4.50 11.51 11.31 15.37 11.29 13.27	\$6,619,603 61,171,22 58,165,517 73,436,070 62,171,561 67,587,434 57,802,515 62,555,186 50,863,583 63,730,846 91,588,704 74,858,878 62,764,8-7 54,614,617 54,053,663 80,346,320 63,-75,044 76,725,284 62,443,346 84,565,299 94,363,060	36.8 36.7 3 1.6 40. 26. 39.7 27.7 29.5 37.5 36.5 27. 35.3 36.5 21.36 37.5 36.67
1872 1873 1874 1875 1876 1877	18,057,664 21,974,355 26,596,518 17,567,967 15,354,£69 27,306,566 35,218,783	11 22 12.61 14 51 9.22 10 15 15 63 16.78	103,073,234 -84,049,323 101,815,494 -97,825,024 112,552,642 101,8-4,305 114,839,127	40.59 35.07 39.73 34.06 36.57 32.46 37.79

SUMMARY.

The total number of bushels of wheat produced in Ohio in 1878 exceeds the production of any previous year, and the average number of bushels to the arre is greater than in any year since 1850

The total number of bushels of corn also exceeds the production of any previous year, and the average number of bushels of corn to the acre is greater than in any year since 1874.

TABLE, EXHIBITING THE NUMBER OF BUSHELS OF OATS AND BUCKWHEAT PRODUCED ANNUALLY, FROM 1857-8, TO 1878, INCLUSIVE.

Average number bushels buckwheet to agre. 11.11 20.22 11.43 13.66 856 9.80 13.58 24.74 12 42 10.19 10.97 7.70 11.77 11.00 7.65 10.14 12.04 12. 6.37 10.15 10.24

Comparative Table, showing the Number of Bushels of Rye and Barley Produced Annually, from 1859 to 1878 inclusive.

•	of	-पृ	of.	4	
Years.	namber	number of bush- to acre.	J namber	nber of but	
	Rye — total buchels.	Average nur els rye to	Barley—total bushels.	Average number els barley to ac	
1859	576,274		••••		
1860	1,078,764	11.40	1,548,477	21.	
1861	779,829	11.22	1,255,049	21.	
1862	823,291	14.34	1,222,041	22.	
1863	305,969	9.43	1,329,251	18.	
864	503,316	10.30	2,337,213	21.25	
1865	910,518	10.43	2,419,900	17.	
1866	622,333	7.98	1,353,955	14.	
1867	1,025,291	9.44	1,604,179	19.	
1868	815,666	9.30	815,778	20.38	
[869	852,722	11.28	1,689,416	23.18	
1870	331,196	9.43	1,502,007	19.	
1871	428,014	11.50	1,941,240	23.8	
1872	295,843	11.75	1,528,266	21.0	
1873	291,829	10.45	1,074,906	21.5	
1874	231,435	9.94	1,233,914	26.6	
1875	415,666	11.31	505,513	12.3	
1876	442,238	9.35	967,313	19.5	
1877	914,106	12.21	1,629,817	29.0	
1878	756,502	13.03	1,265,299	32.8	

TIMOTHY AND CLOVER PRODUCED IN OHIO IN 1878.

	Time	othy.	Clover.				
ounties.	Acres.	Tons hay.	Acres.	Tons hay.	Bushels seed.	Acres plowed under for manure.	
••••	10,151	9,616	1,853	685	1,609	164	
	11,398	21,322	5,050	4,421	2,211	434	
d	24,523	30 313	7,325	6,668	4,414	508	
ula	46,377	54,396	361	575	33	59	
	18,343	22,078	367	265	21	24	
Z0	9,901	11,673	3,332	3,822	1,975	411	
at 3r	25,262 13,979	32,802	1,576	1,604	464	62	
•••••	8,03 2	12,161 10,166	3,113	741	49 1 45 1	391	
	25,088	29,309	13,857 3,709	3,225	1,454	3,659	
aign	11,882	12,417	4,638	4,034 4,491	3,560 3,4∋8	694	
	11,779	16,009	8,717	4,022	3,340	2,097	
out	16,522	14,651	5,399	994	124	1,439	
n	9,278	11,400	1,347	1,161	647	519	
biana	34,751	46,370	6,462	5,207	5,054	100	
:ton	20,507	23,774	3,469	3,129	2,021	144	
ord	16,746	23,722	10,029	13,387	6,146	386	
oga	34,295	41,411	105	159	, 9	8	
•••••	9,723	12,161	13,321	7,341	3,2 88	3,618	
C8	12,835	17,183	3,539	3,482	4,504	484	
are	25,471	33,315	3,028	3,976	2,934	467	
1.3	9,3-2	12,999	3,640	3,790	2,607	1,010	
ld	12,999	16,410	5,787	5,657	7,454	261	
e	7 ,590	10,182	1,365	240	147	73	
in	15,343 16,673	20,839	3,350	2,558	801	1,416	
	11,928	21,161 10,053	3,325 6 73	3,715	3,668	22	
a	31,594	37,516	365	410 503	90 7	207	
)	9,325	13,930	8,569	4,111	1,581	51 0 513	
юу	2,110	34,503	1,051	7,111	441	2,817 6	
ton	12,330	16,514	3,813	3,793	99	533	
ck	17,172	24,503	6,075	7,061	5,111	537	
1	13,138	17,670	3,490	4,256	1,694	378	
on	27,357	34,546	667	674	497	22	
	7,767	10,006	2,200	2,723	2,460	168	
baı	15,236	15,9.0	839	590	์ ฮฮ3	30	
og	11,818	12,683	892	817	520	38	
18	13,799	18,050	9,547	11,673	7,598	267	
	31,693	38,649	6,193	6, 147	4,011	344	
on	13,582	12,548	193	38	23	2	
юп	23,954 22,753	30,348	1,473	1,371	3,110	35	
	14,047	27,914 17,240	5,174 843	5,511	3,744	239	
nce	6,100	5,742	1,615	1,266	42 5	233	
g	30,865	42,655	3,145	405	33 1,5e0	245	
	13,200	16,814	5,702	2,593	3,519	76	
1	40,462	49,720	1,427	5,756 1,670	1,654	23x	
••••	11,704	16,841	2,177	2,647	2,233	63 448	
on	14,167	19,970	415	257	48	115	
ing	31,971	42,153	5,130	6,653	5,415	446	
α	15,929	20,772	5,329	6,563	3,611	243	
a	33,991	41,647	3,272	3,715	2,517	443	
	13,528	14,928	873	455	51	437	
Г	10,510	13,357	4,317	4,560	2,671	471	
	7,196	9,110	10,440	5,607	2,009		

ANNUAL REPORT SECRETARY OF STATE.

TIMOTHY AND CLOVER-Continued.

	Time	othy.	Clover.		Clover.			
.Counties.	Acres.	Tons hay.	Acres.	Tons hay.	bushels seed.	Acres plowed under for manure.		
Monroe	19,004	17,609	1,069	842	576	17		
Montgomery	10,427	12'536	17,602	11,312	2,247	4,604		
Morgau	16,524	19,811	1,459	1,491	1,075	149		
Morrow	2-,033	35,975	2,513	3,145	1,607	48		
Muskingum	3v,v9	3~,022	2,773	2,407	963	٤9		
Noble	16,105	19,510	3-9	321	94			
Ottawa	7,953	11,455	1,221	1,803	1,110	212		
Paulding	5,740	7,193	756	607	729	103		
Perry	17,567	20,622	1,184	1,044	1,146	24		
Pickaway	11,595	10,725	4,696	2,595	2,039	43		
Piko	6,300	5,553	1,071	208	29	12		
Portage	36,124	44,6 0	2,108	3,798	2,136	41		
Preble	7,829	7,777	15,949	4,073	2,436	2,45		
Putnam	14,174	15,057	3,203	3,521	3,4~9	42		
Richland	22,515	28 041	13,206	11,133	5,981	73		
Ross	11,3.9	8,146	4,796	1,180	970	7:		
Sandusky	11,325	13,921	8,198	1,018	3,485	6:		
Scioto	8,665	7,629	539	248	65.3	10		
Seneca	20, 460	22,954	13,570	14,618	6,5-2	2,17		
Shelby	E,0-0	9,014	5,318	4,027	2,953	60		
Stark	28,936	42,216	13,147	18,538	6,252	1,49		
Sammit	22,758	31,9,1	4,882 977	6,910	2,153	9		
Trumbull	\$6,602 55.210	69,170	1	1,278	577	1		
Tuscarawas	25.349 12.050	32,532	10,716	11,451	8,741	47		
Union	17,9-0	25,104	2,269	2,931	869 573	20		
Van Wert	10,684	13.762	2,525 265	2,385 141	773 25	24		
Vintou	10,347 10,554	9,7 :8	6,364		35 255	0.10		
Wairen	•	12,120		1,416		2,19		
Washington	23,×32 24,015	25,417 36,513	1,574 14,631	1,540 20,722	29 t 8 610	27 76		
Wayue	24,013 16,065	19,785	4,956	4,344	8,64 0 4,72 3	25		
Williams	14,791	20,45	4,072	4,704	3,700	25. 37.		
Wyandot	14,751	19,196	4,843	5,466	3,447	46		
,, , , , , , , , , , , , , , , , , , , ,								
Totals	1,586,778	1,951,458	358,219	338,985	199,581	53,021		

AGRICULTURAL STATISTICS.

COMPARATIVE TABLE OF TIMOTHY AND CLOVER.

	Timothy.			· Clover.				
ear.	Number of acres.	Tons of hay.	Average yield per acre.	Number of acres.	Tons of hay.	Bushels of seed.	Aversge yield of clover hay per acre.	No. of acres plowed under.
•••••	1,357,874	1,806,461	1.33				••••	
	1,340,672	1,366,055	1 02		••••		•••••	••••
****	1,538,562	2,027,160	1.33		••••	••••		
••••••	1,461,418	1,705,201	1.16	••••	••••			
	1,570,252	2,067,280	1.32		••••		•••••	
*******	1,195,560	1,095,489	.90	403,884	301,475	151,606	.74	
••••••	1,252,471	1,204,921	.95	346,457	269,070	105,837	.77	27,398
*******	1,420,191	1,852,303	1.32	390,991	359,856	217,391	.92	33,675
	1,410,081	1,839,504	1 30	251,941	159,671	62,200	.61	30,199
	1,536,704	1,993,405	1.25	313,520	256,537	147,646	.91	26,811
••••••	1,532,342	1,743,537	1.13	942,391	254,895	47,635	.27	32,659
	1,458,581	1,784,947	1.19	401,629	360,265	98,570	.89	36,648
•••••••	1,390,522	1,554,632	1.11	340,440	401,393	367,069	1.17	34,692
********	1,377,876	1,526,806	1 10	450,009	401,415	3:4,974	.89	46,998
••••••	1,322,387	1,270,779	.96	549,557	493,171	308,903	.89	51,552
	1,315,157	1,302,164	.99	651,158	568,043	205,941	.67	64,089
*** * * * * * * * * * * * * * * * * * *	1,310,837	1,145,999	.83	502,268	362,886	194,066	.72	40,277
********	1,434,174	1,477,966	1 03	222,743	249,726	66,057	1.12	28,965
	1,541,015	1,799,908	1.16	467,599	447,417	157,459	.91	46,617
*******	1,739,813	2,160,334	1.24	334,877	286,265	251,934	.85	44,891
•••••••	1,586,778	1,951,488	1 22	388,219	338,985	199,581	.87	53,021

PLAX AND POTATORS PRODUCED IN ORIO IN 1878-Continued.

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^{*} Not reported.

COMPARATIVE TABLE, SHOWING THE ACREAGE AND ANNUAL PRODUCTION OF POTATOES IN OHIO, FROM 1860 TO 1878, INCLUSIVE.

Year.	Acres	Bushels.	Average number of bushels per sore (fractions omitted).
1860	96,254	9,365,386	98.
1861	80,949	6,556,901	80.
1862	. 75,367	5,169,327	70.
1863	80,785	5,297,408	66.
1864	81,972	6,811,055	83.
1865	70,515	4,827,354	66.
1866	94,226	6,725,577	71.
1867	87,149	5,744,530	65.
1868	103,287	7,449,247	72.
1869	118,862	10,274,605	86.
1870	87,787	6,121,590	69.
1871	100,630	8,755,193	87.
1872	105,896	7,832,297	73.
1873	78,199	5,966,316	76.
1874	107,911	7,384,907	68.
1875	142,397	13,907,894	97.
1876	116,957	7,066,097	60.
1877	127,685	10,504,278	82.
1878	116,513	7,580,118	65.

TOBACCO PRODUCED IN 1878.

	Tob	Tobacco.	
Counties.	Acres. planted.	Pounds produced.	
	400 17	269,381 1,243	
	4 134 15	7,6 9 5 199,0 35 5,3 3 5	
	1,769 3,033 353	1,9I3,411 8,490,551 76,118	
gnt	14 65 2,097 19	3,765 72,038 1,862,098 16,127	
n 1	1 2 3	225 2,190 630	
8	1,099 81 11	565 1,250,777 66,805 1,779	
	1 8 3	195 1,604 615 395	
	114 7	75,440 1,193 568,557	
1	419 951 3 1	798,828 680 315	
	2 56 8 46	1,650 17,492 6,206 33,757	
	15 5	11,050 1,742 1,410	
	2 8 22	400 3,393 16,400	
	125 2 5 15	91,790 1,970 3,475 4,365	
g	2 2 1 1	965 2,168 40 75	
	29 5 7 329	36,510 3,325 3,035 333,769	
ery	3,080	2,794,895 8,112,110 711,833	

Tobacco Produced in 1878—Continued.

	Tobacco.	
Counties.	Acres planted.	Pounds produced.
Morrow Muskingum Noble Ottawa Paulding Patry Pickaway Pike Portage Preble Patnam Richland Rose Sandnaky Soloto Seneca Shelby Stark Smmmit Trumbull Truscarawas Union Van Wert Vinton Waeren Washington Wayne Williams Wood Wyandot	2 8 9,469 3 13 45 11 11 2 1,212 8 1 11 11 13 140 3 1 9 2 7 110 850 1,605 69 1	325 3,215 2,500,750 100 7,761 42,930 5,965 6,760 1,966 1,573 406 3,996 6,600 2,016 1,111 32,700 2,140 2,200 1,200 1,200 1,200 1,200 1,200 1,200 1,375,679 63,515 430 45
Totale	28,899	28,075,14

Comparative Table showing the Production of Tobacco in Ohio From 1863 1878, inclusive

HORTICULTURAL STATISTICS.

APPLES, PEACHES, AND PRARS PRODUCED IN 1978-Continued.

Counties.

Lincae .							
Madison Mahonin Marion Medina Meige Mercer Minmi Monree							
Mahoniz	10						
Marion							
Madine		***		•••			••••
Maior		***	***	***	***	****	
Mongo			***		***		
Mercer -		• • •		***	•••		
MINEL		***	***	***			
Monroe.		• • •	***	***	• • •		
Montgo:	Reli	++-	•••	•••	•••		• • • •
Morgen		•					
Morrow					•••		*** *
Mucking	gem		•••	•••	•••		
Montgon Morgan Morrow Musking Noble			***	•••	-+-		
EWEILU							
Pauldin	g						
Perry Pickawa Pike							
Pickawa	y				• • •		
Pike							
POTES PE							
Proble .							
Poteam					•••		
Proble Putnam Richlan	đ				•••		
Ross Sandusi Scioto					-+-		
Sanduel	XY						
Beioto .							
Beneca .							
Seneca Shelby Stark							
Stark							
Summit Trumbu Tuscara							
Trumbu	11						
Тивовга	Was						
Union . Van We Vinton . Warren							
Van We	rt						
Vinton					•••		
Warren							
Washin	rton		***		•••		
Wayne.	5~~4	*			••		
William							
Wood	9	•••			*	••••	
Wyando	ıt.	***	•••		•	++++	
A- 3 mmm		• • •					
Total	als						
100		***		•••			

GRAPES AND WINE PRODUCED IN ORIO-Continued.

reports of "acres in vineyard" are so inaccurate as to be comparasitted.

PEACHES.

The peach crop of 1878 was a light one (1,476,159 bushels), and somewhat generally diffused over the State. The crop of this year (1879) was an entire failure in the central and southern parts of the State, owing to the extreme cold of the past winter, when the mercury went as low as 20° to 22° below zero, causing destruction of the fruit buds and much damage to the trees. In the northern border of the State the cold was not so severe, and the buds escaped injury, so that a fair crop of fruit was realized. Having two good crops in succession in this section of the State, and but few failures in the past six or ten years, of course there is a disposition to plant more peach trees along the lake shore, and but few elsewhere in the State.

PEARS.

The crops of pears have been less variable than those of apples and peaches, and the amount is of course less—that of 1878 was 110,419 bushels. Failures are not apt to occur from winter-killing of the buds, but the trees are often injured by cold so as to cause them to die of blight the next summer. There is also the so-called "fire-blight," which kills many pear trees and discourages planting, so that there has been no considerable increase of this fruit in the State. Much of the crop of this season was lost in consequence of the warm autumn causing the late varieties to ripen too early, and to decay before they could be marketed. Many of the winter apples were also lost, or had to be sold at low prices, owing to the same difficulty.

CHERRIES.

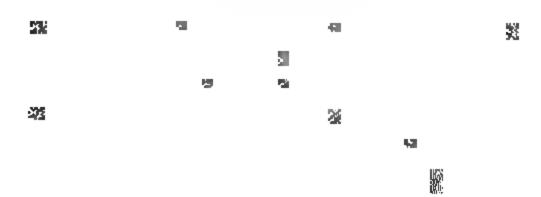
The varieties of sweet cherries have not generally done well for some years past, owing to injury to the trees by the winters, or the tendency of the fruit to rot at the time of ripening; hence these are but little grown for the markets. The Morello or sour cherries are more hardy and reliable, and some of these, as the Early May variety, are largely grown in southern parts of the State, the fruit being shipped extensively. Some planting of this variety has also been done of late in northern localities, both for market and home use. We have no statistics of cherries or plums.

PLUMS

Blue Damsons are largely grown in the vicinity of Cincinnati, also on the hilly lands in Ross county, and shipped to distant markets. The trees are very hardy, and the crops reliable; but the finer kinds of plums, such as the Lombards and gages, have not been generally suc-

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METEOROLOGY, CLIMATOLOGY, AND ELEVATIONS.



The greatest monthly velocity was 5.149 miles, December. The least monthly velocity was 3.374 miles, August. The greatest daily velocity was 327 miles, April. The least daily velocity was 48 miles, July. The maximum hourly velocity was 25 miles.

BAROMETRICAL OBSERVATIONS.

Barometer corrected for temperature and elevation above sea level (620.422 fact).

Mean barometer was 30.063.

Highest barometer was 30.660, February 27th.

Lowest barometer was 29.342, November 27th.

Annual range of barometer was 1.318.

Highest monthly pressure was 30.194, January

Least monthly pressure was 29.963, July.

Greatest monthly range was 1.213, December.

Least monthly range was £65, July.

Average monthly range was .878

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* Bromoter corrected for temperature, elecation and instrumental error. Elecation of barometer above sea-level, 690.629 feet. Bange of barometer during year, 1.318 luches. Soft-egistering instruments.

CLIMATOLOGY, AND MANATESPE.

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WANT TO

10.7

And the number of times the Wild biew from 680h point of the compans, the winds most and least likely to be followed by precipit together with the highest and lowest stages of the Ohio River at Cincinnali, for the commercial year ending August 31, 1679:

W. 77

· Observations of river taken daily at three P. M. Bange of river during year, 37 feet, 2 inches.

? Provailing direction of wind, southeast.

MOUTH, THENCE NORTHERLY AND EASTERLY TO THE PENNSYLVANIA LINE.

Locality.	Geological stratum	Direction of greatest inclination.	Rate per mile in feet.
	T 3-4	Sand FRO and	40
Beiote Co	Logan sandstone		40
Lawrence Co		• • • • • • • • • • • • • • • • • • • •	20
Ross Co		00	32
Pomeroy	Coal seam	00	29
Gallia Co		" 730 " " 810 "	27
Columbus		01	22
Haydenville			36
Straitsville		70	32
Shawnee Run		" 770 "	2 5
Bunday Creek		" 740 "	32
Mozahala	***	" . 62° "	
New Lexington	44	" 600 "	
Tunnel	"	" 67° "	24
Jonathan's Creek	"	" 66° "	
Zanesville	Limestone (local), Put-	" 870 "	48
	nam Hill		
Coshocton Co			22
Crawford Co	Waverly	" 590 "	5-3
Valley of Mohican	Coal No. 1	" 530 "	23
New Philadelphia	Limestone (local)	" 86° "	10
Bolivar	"	" 720 "	25
Wayne Co	Coal No. 6	" 320 "	16
Massillon	Coal No. 1 (local)	" 71° "	15]
Stark Co	"	" 230 "	9
Stark Co. Sandy Valley Summit Co.	Coal No. 5 N	· 43° ·	36
Summit Co	Coal No. 1	" 53° "	81
Cuyahoga Co Lorain Co	Berea grit	" 80 west	11
Lorain Co	"	" 340 "	
Geauga and Trumbull	Conglomerate	" 37° east	
Portage and Trumbull	Coal No. 1	" 120 "	. 20
Conotton Valley	" 6 (local	North 80° "	144
Conotton Valley Mineral Point	6	1041 900 ((• • • • •
Mahoning Valley	1	" 220 "	14
Mineral Ridge	" 1 (local)	" 18° "	161
Mahoning Valley Mineral Ridge Lowell Rochester, Columbiana Co. Hanover, Columbiana Co.	" 1 "	" 3~0 "	13
Rochester, Columbiana Co	" 6 "	" 100 "	30
Hanover, Columbiana Co	Limestone	" 200 "	16
Salineville, Columbiana Co.	Coal seams (local)	North 70° to	
			80 to 10
Hammond's Station, Col. Co.	Coal seams (lccal)	1 _	
Steubenville		" 370 "	*
Wheeling	(1	" 450 "	
		1	

ELEVATIONS IN OHIO-Continued.

Counties.	Localities, etc.	Height above Lake Erie.	Height above
Ashtabula	Ashtabula k	75	650
	Conneaut h	78 120	653 695
	State line h	79	654
	Kingsville w	152	727
Athens		81	656
	Nelsonville d	108	683
	Salina d	84	659
	Pitchers grade f	301 98	876 673
	Warren f	71	646
Auglaire	Wapakoneta l	318 291	893 866
Balmont	St. Clairsville (Kinney)		
	Main street crossing railroad	595	1170
	Bellaire gg	82	657
Butler	Hamilton !	29	694
	Canal basin	37	612
Carroll	Malvern gg	426	1001
	Oneida gg	436	1011
Champaign	Urbana (a 454) k	458	1033
	Summit, near Mechanicsburg W	543	1118
	Summit, n. w. part of county W	583	1158
Clarke	Springfield (a335) W	37 8	953
Clermont	Summit, near Bethel, O (about)	347	922
	Loveland f	21	596
Clinton	Wilmington O	417	992
	Martinsville f	470	1045
	Blanchester f	404	979
	New Vienna f	557 594	1132 1169
Columbiana	New Lisbon #	393	968
Columbians	Salem b	620	1195
	Wellsville g	115	690
	Liverpool g	120	695
	Columbiana b	555 76	1130
	Wellsville, level of river W	7 6 530	651 1105
	Round Knob n	844	1419
	Mahoniug summit n	627	1202
	Yellow creek summit g	543	1118
	Salineville g	306 503	881 1078
	Yellow creek hills W	681	1256
	Hanoverton (high land) W	624	1199

ELEVATIONS IN OHIO.—Continued.

Counties.	Localities, etc.	Height above Lake Erie.	Height above
Coehocton	Coshocton (W 208) i	198 168 220	773 743 795
	Near New Castle W	751 165	1326
Crawford	Bucyrus &	434 596	1009 1171
	Crestline (b 594) c	601 384	1176 959
Cuyahoga	Cleveland union depot c	24 89	599 664
•	" corner Kinsman and Erie streets W	103	678
	"Wilson avenue W	128	703
	Newburg (g 224, a 240) W	227	803
	Bedford (g 368) W	379	954
	Solon a	457	1032
Darke	Greenville W	400	1055
Darke	Union City oc	480 532	1107
Defiance	Defiance e	125	700
	" canal level, lock 2	105	680
	" canal level, lock 2	96	671
	Old Fort W	••••	98
Delaware	Delaware c	37 8	953
	Ashley c	412	987
	Lewis Center c	3 87	962
Erie	Sandusky k	25	600
13110	Blooming ville deep cut W	160	735
Fairfield	Lancaster d	253	823
	Carroll	240	815
	" junction of Ohio and Hocking canals	274	849
Fayette	Washington C. H O	382	957
Franklin	Columbus union depot c	171	746
	" south " d	144	719
	" old capitol square	198	773
	" floor of rotunda of capital W	210	785
	" canal level W	128	703
	Worthington c	340	915
1	Dublin W.	266	841
	Westerville U	3 56	931
	Ohio State University O	193	, 76d
Fulton	Wauseon h	200	775
	Delta h	149	724
	Archbold O	165	730
Gallia	Gallipolis, see river level	! ••••	
Comme			4202
Geanga	Summit Capaloga and Chagrin rivers W	627 '	1503

ELEVATIONS IN OHIO .-- Continued.

	ELEVATIONS IN ORIO Consuded.		
lounties.	Localities, etc.	Height above Lake Erie.	Height above
*****	Xenia WYellow Springe W	519 396	1094 971
(2	Cincinnati, Ohio river, low water below Lake Erie, W 134. Cin upper level of canal below Lake Erie, W 21. Cincinnati, C. H. & D. R. R. track, 68 c		441 654 507
£	Blanchard's Fork summit#	489	1064
*********	Kenton k Forest b Summit, northeast, between Scioto and Aug-	44% 365 796	1017 940 1371
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cadiz Junction i	518 432 605 496 386	1093 1007 1180 1011 961 1055
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Napoleon sLiberty sAlma	107	682 684 712
d	W	560	1135
ţ	Logan (150 O) d	185	730 601
******	Millersburg W. Top of hills near Millersburg W. Holmesville W. Summit, between Kilbuck and Mohican, south west part county W.	243 660 290 566	818 1235 865
******************************	Norwalk A. Monroeville A. New London c. Greenwich c. Bellevne (k 166) A.	165 161 4WI 476	730 736 996 1050 766
	Jackson WLick township W		795 771
Q	Steubenville gg	156	665 730
	Hammondsville g Mingo Station i Tunnel No. 1 i Smithfield i Tunnel No. 2 i	94 200 370	690 000 836 775 945
	Tunnel No. 2 i	370	

ELEVATIONS IN ORIO.—Continued.

Counties.	Localities, etc.	Height above Lake Eric.	Height above the Ocean.
Montgomery	Dayton († 180) s	179 178	754 753
	River level seven miles north of Dayton W.	765 315	741 890
Morrow	Gilead Station c.	466	1041
	*************************	457	1012
		573	1148
Muskingum	** depot #	136	711
	Putnam W	191	696 725
	Putnam W	128	703
	1	162	737
	Norwich W	547	1122
	Mt. Sterling W	586	1161
	Frazeysburg 4	178	753
Noble		266	841
Ottowa	Genos O	65	640
	Antwerp e	157	732
Рому	W	296	871
		584	1159
	depot W	221	796
	Bristol Tunnel, R. R. grade W.	390	909 965
	44 44 top of hill W	502	1077
Picksway			580
Pike	Piketon 0Fort Hill 0	710	578 1285
Portage	Ravenua court house (g 260) W	565	1140
	C. & P. R. R. depot a	530	1105
	" A. & G. W. R. R. depot a	520	1095
	Canalidadi M	501	1076
	Mantua cummit W	474 575	1049 1150
	" R. R. depot as	536	1111
	Atwater summit g.	E03	1178
	" K. R. depot g	560	1135
	summit (north) N	985	1260
Proble	Eaton O	469	1044
	Camden O	264	839
	Sonora O	401	976
Putnam	Ottawa !	155 194	730 769
Richland	Manefield a	581	1156
	11 8 *****************************	592	1167
	Shelby o	24.5	1119
	Summit (south-east part of county) #	925	1400

ELEVATIONS IN OHIO—Continued.

Counties.	Location, etc.	Height above Lake Erie.	Height above the ocean.
Richland	Ontario (west part of county) a	802 639 498	1377 1214 1073
Ross	Chillicothe, canal level W	62 250 52	640 637 835 627 617
Sandusky	Fremont h	62 127	637 702
Seioto	Portsmouth, below Lake Erie W, river level low water, 56		499 528
Seneca	Tiffin k	183	758
Shelby	Sidney oc. Near Sidney, canal level. Railroad summit l Anna l. Laramie summit W	376 489	958 1003 951 1055 1020 953
Stark	Canton b Massillon b Canal level W. Alliance (g 516, W 501) b Summit, south of Alliance W Wilmot (top of hill) W	392 366 524 627	1049 967 941 1099 1202 1261
Summit	Akron a Tallmadge a Hudson Station g '' Village W g Summit near Akron W west of Akron W lake W level Ohio Canal W		1005 1102 1055 1192 1175 1081 975 970
Trumbull	Warren a W Levittsburg a Orangeville, State line a Brookfield (summit of hill) W Newton Falls W Champion, Mahoning and Grand rivers W	327 332 322 370 590 333 343	902 907 897 945 1165 908 918
Tuscarawas	New Philadelphia W227, gg canal level N Canal Dover gg Dennison i Urichsville N 230, W 291 i top of hill N New Comerstown i Mt. Tabor N Hill tops north of Port Washington N	331 287 307 282 290 580 223 775 725	906 862 882 857 865 1155 798 1350 1300

ELEVATIONS IN OHIO—Continued.

· Counties.	Localities, etc.	Height above Lake Erie.	Height above ocean.
Tuscarawas	Hill top near Zoar Station (N 600) W	648 316 708 740	1223 1491 1283 1315
Union	Richwood O	369	944
Van Wert	Van Wert b	213	788
Vinton	Zaleski f Raysville f Hamden f Vinton Furnace f	148	723 638 723 713
Warren	Lebanon O	165 67	740 642
Washington	Marietta, river level low water W, below Lake Erie, 2 Harmar f Vincents f Little Hocking f Cutler f	50 201 182	573 625 776 757 779
Wayne	Wooster b " summit b Orrville W 489 b Summit, north-west part of county W Killbuck at mouth Apple creek W	499 700	917 1138 1074 1275 853
Williams	Bryan k	146 304	753 721 879 845
W ood	Milton l Perrysburg l		692 639
Wyandot	Upper Sandusky b		862 820

NOTE.—This table is expected to be only an introduction to more complete tables of elevations in future reports. In its preparation it was found that "authorities" differed in many instances, hence, although impossible to be exact in all cases, yet the greatest difference being but a few feet, the value of the table is not materially affected thereby.

COMPARATIVE TABLE SHOWING THE PRINCIPAL ELEVATIONS OF 1000 FEET AND UPWARDS IN OHIO, ABOVE TIDE WATER, COMPARED WITH ELEVATIONS IN OTHER STATES AND TERRITORIES.*

Counties.	Locality.
	Оню.
hland	
elmont	St. Clairsville
((
hampaign	Urbana
	Summit in Champaign county
llinton	
	Round Knob.
"	Yellow Creek Hills
((loobaatan	
oshocton	
((
(6	Crestline
uyahoga	Solon
arke	
	Summit C. and C. rivers
Iardin	" Blanchard's Fork
	Kenton
Mariaan	Summit in Hardin county
	Fairview
	Tunnel N. 4, P. C. & St. L. railroad
[ighland	Hillsboro
lolmes	
Iuron	Killbuck summit
efferson	Funnel No. 3, P. C. & St. L. railroad
nox	
"	
ake	and Dail 5 Kun
icking	Summit of hills northwest part of county
"	
"	
ogan	
((Summit of Great Miami and Scioto rivers
(l	,
lahoning	Canfield
	Summit Harper's Run
lorrow	Iberia
	Gilead Station
"	Cardington

^{*} The elevations in other States and Territories are from the U.S. Geological Survey, as collated by Henry Gannet, M. E.

COMPARATIVE ELEVATIONS.—Continued.

Counties.	Locality.	Elevation above
	Оніо.	
luskingum it like like lichland it like lichland it like lichland	Norwich Mt. Sterling Somerset Top of hill, Bristol tunnel Fort hill Ravenna Topographical summit Mantua Atwater Eaton Mansfield Shelby Spring Mills Ontario, west part of county Summit, southeast part of county Sidney "railroad summit Anna	12 11 10 11 11 12 13
tark	Canton Alliance Summit south of Alliance Wilmot, top of hill Akron Summit near Akron Hudson Brookfield, summit of hills	10 10 12 12 10 11 11 11 13 13 11 12

COMPARATIVE NOTE.

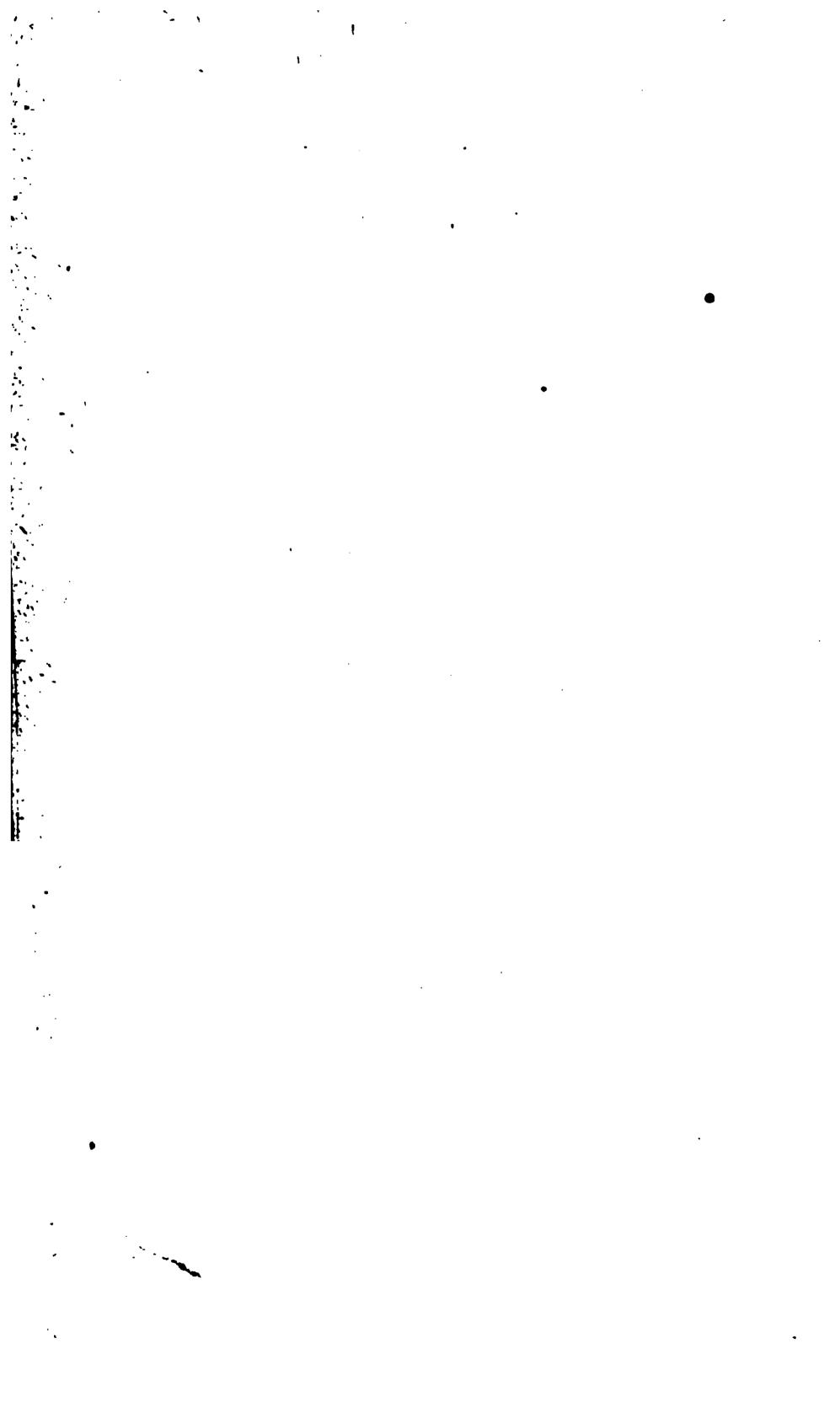
Lake Erie (above tide water)	575
Cincinnati (above tide water)	441
Wheeling, West Virginia (above tide water)	625
Pittsburgh, Pennsylvania (above tide water)	747
" river level, low water (above tide water)	715

COMPARATIVE ELEVATIONS—Continued.

Locality.	Feet.	Locality.	Feet
Arkansas.		DAKOTA.	
Camden	123	Bois des Sioux	1039
Little Rock	309	Fort Buford	2017
Fayetteville	1350		
Missouri.		NEW MEXICO.	
SA Tamin (D.D.)	400	Fort Fillmore	3937
St. Louis (R.R)	428 620	San Antonio	6400
Endependence	1035	Sante Fé	7047
Darley.	1627	Fort Taos	8000
Iowa.		Arizona.	
Davenport (R.R)	570		
Iowa City	626	Aubrey City	398
Sibley	1485	Fort Mojave	604
Vaneter's Grove	· 1500	Big Canon	1496 3000
		Fort Buchanan.	5330
Minnesota.	20.0	Fort Canby	6500
St. Paul (R.R)	696	Leroux Spring	7373
St. Anthony	· 829 1230		
Fort Ridgely	1335	MONTANA.	
Hospers	1438		
Trophore	2.00	Bighorn City	2831
Texas.		Fort Benton	
		Montana City	4191
Fort Polk		Virginia City Fort Shaw	5824 6000
Indianola		FOR SHAW	0000
Houston	200	,·	•
Austin	600	Colorado.	,
Pecos Spring	3098	1	one
Fort Stockton	4910	Las Animas (R.R)	39 67 5494
		Canon City	
Indian Territory.		Hot Springs	7725
T	300	Breckenridge	949
Fort Towson	645	Ore City	10,52
Fort Washita Fort Arbuckle	1000	Alma	10,86
		Montgomery	11,00
Kansas.			
Parsons	366	WYOMING.	I
Lawrence (RR)	846	Boleter	432
Topeka (R.R)	904	Chevenne	
Fort Scott	1000	Deer Creek Agency	
Fort Wallace	3203	Fort Halleck	750
Cheyenne Wells	4179 4340	Sherman	
	4040		ı
Nebraska.		IDAHO.	
Falls City	806	Lapway	20
Omaha (R.R)	1060	Salmon City	40:
Nebraska City	1005	Fort Hall	47
Lincoln	1154	Soda Springs	57.
Pine Bluff	5064	Florence	- 50 (

COMPARATIVE ELEVATIONS—Continued.

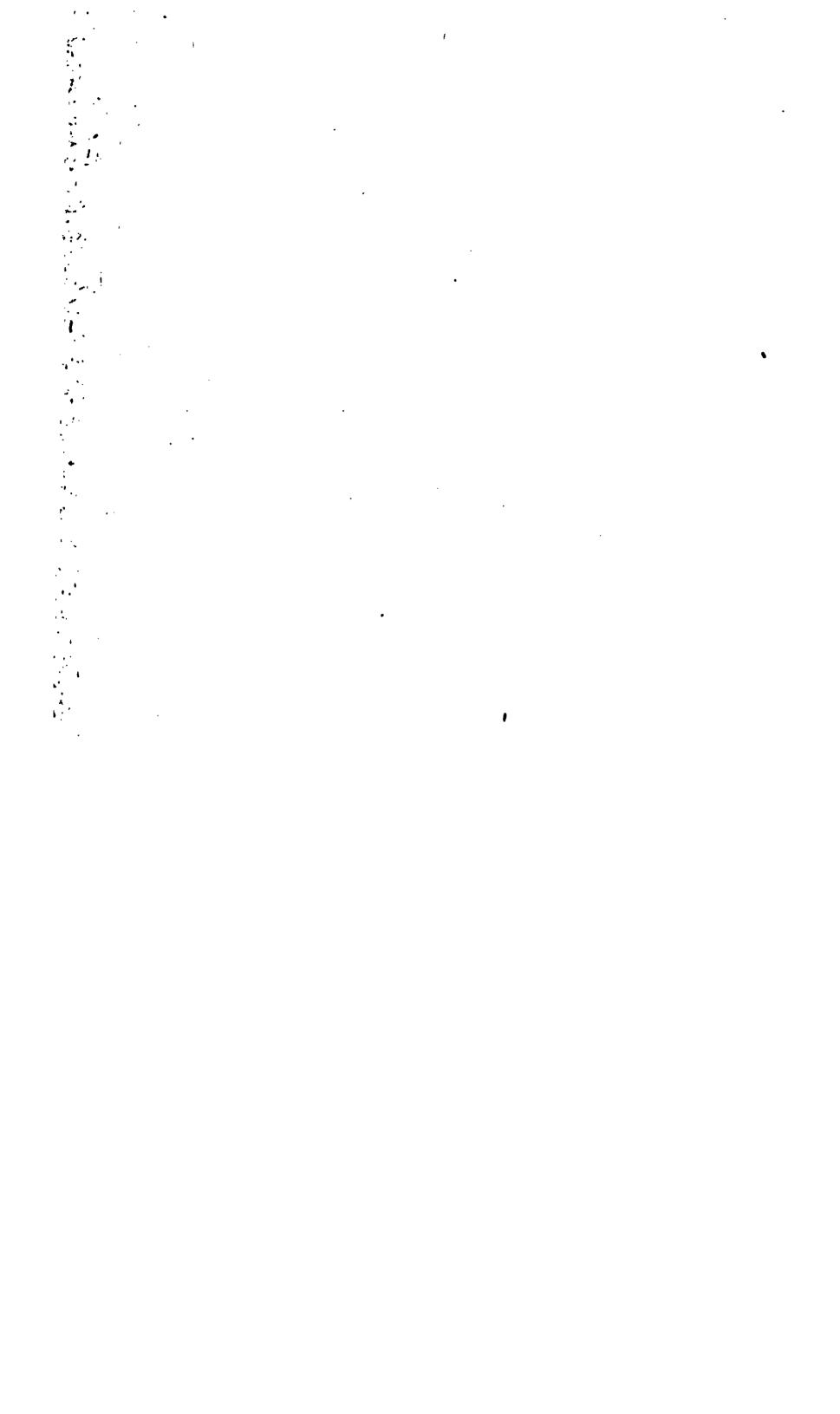
Locality.	Feet.	Locality.	Feet.
UTAH.	•	WASHINGTON TERRITORY.	
Bonneville (R.R)	4310	Vancouver	. 00
Salt Lake City	4320	Fort Vancouver	56
Weber (R.R)	5096	" Townsend	135
St. Mary's	6200	" Walla Walla	1396
Evanston (R.R)	6870	Cantonment Stevens	3412
NEVADA.		Georgia.	
MEVADA.	•	Mud Creek, Bald Mountain	4705
St. Thomas	1600	, , , , , , , , , , , , , , , , , , , ,	
Las Vegas	2074	MAINE.	
Indian Springs	3402	;	
Reno ,	4525	Lake Sebago	270
Tulasco	5418	Moosehead lake	1038
Virginia City	6200	Mt. Agamenticus	673
Star	7800	Mt. Katahdin	520 0
San Juan	8075	Massachusetts.	1
		Lake Quinsigamond	361
California.	İ	Mt. Holyoke	1120
CALIFORNIA.	†	Hoosac Mountain	2510
San Francisco	00	Graylock Mountain	3505
Santa Barbara	20	i	5555
San Diego	30	New Hampshire.	
Stockton	46		
Secremento	82	Echo Mountain	3170
Oakland	123	Carr's	3480
San Jose	114	Blue "	4370
Anaheim.	262	Mt. Adams	5794
Hooker	543	•	
Kingston	1118	New York.	
Georgetown	2433		
Fork Crook	3390	Lake Champaign	101
Blue Canon	4700	"Ontario	250
Eureka	5223	" Mahopac	660
Clifton	6339	" Henderson	1936
Aurora	7468	Mt. McIntyre	5183
		Tennessee.	•
OREGON.		Cross Knob	5931
		Mt. Collins	6188
Fort Umpqua	8	Mt. Cartis	6568
Portland	150	,	
Oregon City	200	Vermont.	
Fort Dallas	350		0000
Lane	2000	Equinox Mountain	3872
Auburn	3300	Mt. Lincoln	4078
Fort Klemeth	4200	Killington Peak	4221



REVIEW

OF THE

GEOLOGY OF EASTERN OHIO.



REVIEW OF CERTAIN POINTS IN THE GEOLOGY OF EASTERN OHIO.

BY PROF. EDWARD ORTON.

Ohio State University, Columbus, Ohio.

[Prepared for the Annual Report of the Secretary of State.]

The pages of the annual statistical reports of Ohio have been thrown open of late to contributions treating of various phases of our economical geology. Availing myself of this medium, I propose to set forth, in the present paper, a brief summary of a portion of the geological history of the eastern half of Ohio, in which the mineral wealth of the State is chiefly centered. My principal object will be to trace the stratigraphical order of this district; and, in the second place, I wish to note some of the connections between the geological series of Ohio, Pennsylvania, and Kentucky.

The western half of Ohio consists, for the most part, of limestone strata that were formed in the seas of Lower Silurian, Upper Silurian, and Devonian time. The aggregate thickness of these strata is not less than 1,200 feet, and though differences exist among them by which they can be readily separated into five chief divisions, there is still no reason to believe that any marked change occurred in the character of the seas during the protracted periods in which they were growing. The life which these seas contained was slowly changing from age to age, and differences are indicated in the several strata as to the depth of the, water in which they were formed, and as to the conditions under which the sedimentary matter that enters into them was supplied, but no real physical break occurs in the long history.

The northern extension of that early fold of the continent which we call the Cincinnati Axis began to invade Ohio in the later ages of Lower Silurian time. It extended itself slowly through the succeeding periods, until at the end of the Upper Silurian, the dry land of Ohio reached as far north as Champaign county and as far east as the Scioto valley. The Corniferous limestone was deposited in the sea that surrounded this broad and low axis. No more genial conditions of growth are shown by any stratum of the Ohio scale than those which this Devonian limestone attests, but with it the great limestones of the State come to an end. The change from the calcareous beds of this series to the next formation is very abrupt and very marked.



The Logan group in Pennsylvania, as well as in Ohio, is still a subject of investigation; but it seems likely to find its equivalent in the Sharon shales and sandstones of Chance, if not in the Sharon conglomerate. (Report V, page 224).' The Shenango sandstone and shales of White hold the same place. They contain, with the usual Waverly fossils, many coal plants, among which "huge lepidodendra" are mentioned. (Report V, page 224). The occurrence of Lepidodendron Veltheimiamum, a sub-carboniferous form, in this rock, is also noted. (Report Q Q Q, page 61) The Sharon sandstones are held by Carll to be the First and Second Mountain sands of the oil regions, the lower or main one probably becoming the Garland conglomerate of Venango county.

The equivalences established or highly probable, now stated, can be shown in tabular form:

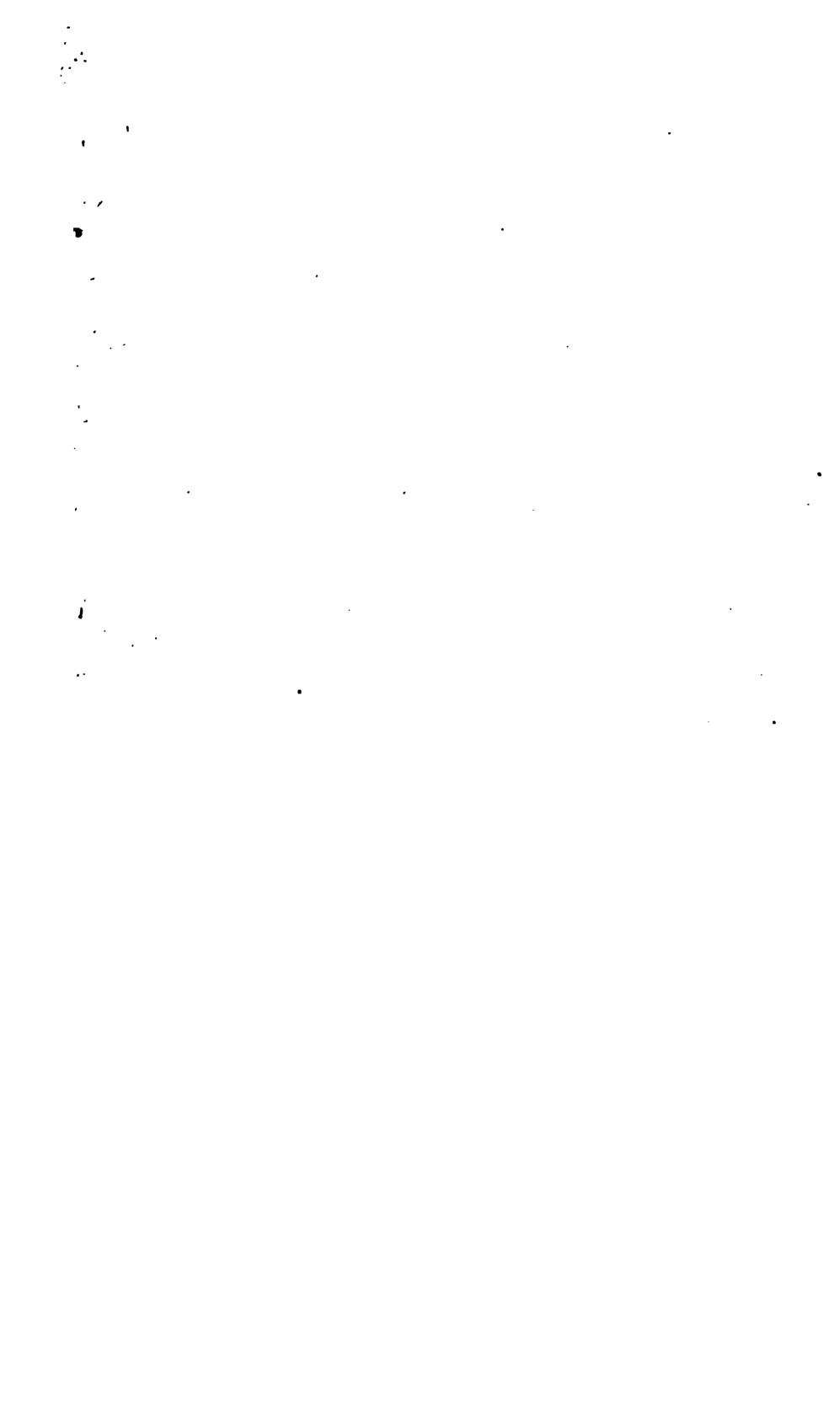
mlready settled. The section that I copy is taken from Mr. Chance's report on Northern Butler (Report V. pages 186-7).

Though at least four well developed and largely worked seams of coal are now included in the Conglomerate group of Pennsylvania, I believe that it will be found necessary to adopt Professor Newberry's view, and include all of these in the Lower Productive Coal Measures. Professor Lesley already intimates that such a change will be found necessary (Report Q, p. 6), and Mr. Chance seems to support this view by the title which he gives to the subjoined section. The only liberty that I have taken with the section is to affix numbers to the several elements, for convenient reference in the comparison. The upper portion of the series is much better shown in other sections, but no other gives as good a general view for my purposes. I have placed a group of coals and limestones at the head of the Ohio column, without venturing to suggest their exact equivalents in the Pennsylvania scale, but I am inclined to believe that the Shawnee limestone of the Hocking valley will prove to be the extension of the Freeport limestone of the latter State.



MINES, MINING, MANUFACTURING, BUILDING,

LABOR, AND COMMERCIAL INTERESTS OF OHIO.



IRON AND COAL STATISTICS.

IRON ORE.

258658	вогв			••••••	••••	as reported by township	291,847
					•	ed in Ohio in 1878), as re-	633,181
						es (used in Ohio in 1878),	49,000
	Total n	umber o	f tons of ire	on ore used in	n Obi	o, as reported May, 1679	974,028
		Pie	G IRON MAI	NUFACTURED	IN C)HIO IN 1878.	
Numbe	r of tone	cold bla	st native o	re charcoal p	ig iro	n	29,466
	66	· hot	. 44	66	66	•••••••••	50,478
	44	66	44	stonecoal	46	••••••	109,432
	44	native	or foreign	44	"		• .
•	64		"	charcoal	"	•••••••••••••	•
						Ohio, as reported by town-	
Total	-		• •			in 1878, as reported by the	•
						Ohio furnaces in 1872-9, as	•
				_		······································	
_	•					e of the above twenty fur-	•
				•	•	•	
						ny one of the above twenty	· 660
					•	•	
albi	aces		•••••	• • • • • • • • • • •		•••••••••••	50,000

The following tables from the annual report of James M. Swank, Secretary of the American Iron and Steel Association, show the production of pig iron in Ohio, by districts, and the total production in the United States, by States:

TABLE SHOWING THE PRODUCTION OF PIG IRON IN OHIO, BY DISTRICTS.

	воев, Decem- 31.	-10% to noitibaoO -messed as essen	.18 79 <i>d</i>		•	Make of p	Make of pig iron in net tons, (Tons of 2,000 pounds.)	et tons, nds.)		
	Forn 190	1878.	æ							
	1878.	Io.	Out.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Hanging Rock coke	17	ත	12	23,169	109'87	26,015	36,899	44,260	44,544	31,137
Mahoning Valley	17	~	10	152,756	136,972	121,403	115,993	137,546	136,526	134,400
Hocking Valley	13	~	9				1,2:0	7,483	33,865	65,690
Miscellaneous coke	33	n	14	128,196	139,958	184,748	199,780	165,057	153,316	156,251
Hanging Rock charcoal	31	21	19	87,440	92,345	85,573	67,413	42,832	40,419	13,513
Miscellaneous charcos!	က		က	é,182	8,133	6,962	4,568	6,109	1,905	

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ic
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6
1872 TO 1878, BY STATES
4
875
Ö
G
IR
9
OF PIG IRON FROM
40
×
Production
8
8
7

							X	1		
	писев, December	Condition of far-	cember 31.		•	Make of 1	pig iron in of 2,000 po	in net tons. pounds.)		
•	րո ^հ 16	1878.	36				ì			• ,
	1878.	In.	Out.	1872	1873.	1874.	1875.	1876	1877.	1878.
Maine	1	-			250	1.661	2.046	3.005	1.960	1,190
Ë	-	-		2,000	•	3,450	2,400	5:0	210	-
=	9	~	Q	•		165,72	21.255	5,040	8	1,426
	10	~ 8	တ င	22	26,977	14.518	10,8±0	10,160	4.	15, 20
	200	S 4	% ?	201,105 10.4 ASB	100,241	320,721	61 060	151,620	230,412	247,698
New Jordey	271	192	149	•		1.213,133	960.874	1.069,613	1 153 356	1.34.4.633
Maryland	24	7		63,031	•	54,		19,876	-	~ ·
Virginia	333	2	25	•		29,451	29,985	13 046	12,434	16,928
rolin	7	:	~	1,073	•	1,340	•			•
Georgia	=======================================	34	o	2,945	•	E S	16,503		er .	8
Alabama	3:	တ	~ -	12,512	•	••	25,103	24,732	41,241	41,483
Teras	7 ;		 (6		22 056	20.12	95.059	420	529 34 005	E0 664
West viginis	35	ာဏ	16	67,396	69,880	61,227	4×.339	34.6-6	47,607	50,182
٠ _	ន	ЭС	15	42,454	•	48,770	28.311	24,5%5		22.29
Ohio	104	40	9	390,743	•	472,001	415, -9:3	403,277	400,393	4.0,991
Indiana	7	:	2	•	•		22,081	14,547	15,460	
Tipois	21	40	ر ا	120,027	19.3, 506	136 669	114 805	04,105	51,358	70.450 6.25
Windship	15	ه ده -	2	•	•		65	51,281	22,205	40,000 7X7,04
Missouri	19	•	13		ڏڻڻ		517 63		73,565	47,499
Oregon	-					7	ď	-		1,310
Utah deb			1			500	150	જ		
Totala	763	265	427	2,814,558	2,868,278	2,669,413	2.266,581	2,093,236	2.314,5-5	2,577,361

ritoy of Utah engaged in the production of pig iron; in 1877 Oregon and Utah made no pig iron; and in 1878 Texas, North Carolina, Indiana, and Utah made none. Only twenty States therefore made pig iron in 1878. No new iron-making territory has been developed during the past few years, except the Hocking Valley, in Ohio.

At the close of the year 1874 a systematic attempt was made for the first time to collect the statistics of stocks of unsold pig iron in the hands of makers or their agents. The new departure was so well received that but little difficulty has since been experienced in annually collecting these statistics. The figures for that year and for the years that have intervened are given below. They represent only unsold stocks at the close of each year in the hands of makers or their agents, and do not embrace stocks that have been bought on speculation, imported, or held by consumers. Tons of 2,000 pounds are used.

1874.	1875.	1876.	1877.	1878.
705,784	760,908	686,798	642,351	574,565

COAL STATISTICS.

Total number of tons of coal mined in Ohio in 1878, as reported to the county auditors by township assessors in May, 1879.	5.945.077
Total number of tons of coal mined at twenty-five mines in Ohio in 1875, as)
reported by the proprietors of the mines	5,400
Greatest number of tons mined at any one of the above twenty-five mines	138,754

TABLE EXHIBITING THE AMOUNT OF COAL AND IRON ORE MINED, AND THE AMOUNT OF SALT AND PRINCIPLE PRODUCED IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1879.

MANUFACTURING STATISTICS.

THE PRODUCTION OF ROLLED IRON AND STEEL IN 1878, IN THE UNITED STATES.

[From the Annual Report of James M. Swank, Secretary of the American Iron and Steel Association.]

The production of all kinds of rolled iron in the United States in 1878, including iron rails, was 1,555,576 net tons, which was an increase of 78,817 tons over the production of 1876. Appended is a table which shows the production of iron rails and of all other forms of rolled iron since 1864. By the term rolled iron we include (1) cut nails and spikes; (2) bar, angle, bolt, rod, skelp, and hoop iron; (3) plate and sheet iron; and (4) all sizes of iron rails. Bessemer steel rails are not classed among rolled iron products:

Years.	Iron rails. Net tons.	Other rolled iron. Net tons.	Total. Net tons.
1864	335,369	536,958	872,327
1865	3.6,292	500,045	856,340
1866	430,778	595,311	1 026,089
1867	459,558	579,838	1,0 9,390
1668	499,459	594,286	1,097,773
1869	583,936	642,420	1,246,356
1870	586,000	705,000	1,291,00
871	737,443	710,000	1,447,48
872	905,930	911,992	1,847,92
1873	761,062	1,076,368	1,837,430
1874	584,469	1,110,147	1,694,610
1675	501,649	1,097,-67	1,599,510
876	467,168	1,042,101	1,509,46
877	3 (2,540	1,144,219	1,476,75
1878	322,590	1,232,686	1,555,57

This table shows that the production of iron rails reached its maximum in 1872, and that it has annually declined since that year, the decline in 1878, as compared with 1877, being, however, only 9,650 tons. It further shows that the production of all other forms of rolled iron reached its maximum in 1878, when 88,467 more tons were produced

han in 1877, and 156,318 more tons than in 1873, the year of the panic. The production of all rolled iron, exclusive of rails, more than doubled rom 1868 to 1878.

The following table shows the States which produced cut nails and pikes in 1878, with their production in kegs from 1873 to 1878:

States.	1873.	1874.	1875.	1676.	1677.	1878.
Maine			7,000			
Massachusetts	626,465	576,376	551,798	446,638	556,344	476,863
Rhode Island	73,249	68,930	5×,730	9 966		
New York	64,438	115,9 5	81,263	71,591	76,147	46,470
Now Jersey	456,537	552,867	522,198	312,391	303,-52	254,453
<u></u>	195,609	1,503,019	1,31+,259	1,363,163	1,591,924	1,349,714
, —	106,922	112,(34	121,976	119,426	118,091	127,970
Georgia	10,183		9 300	15,000	24,000	
	878,653	1,084,027	1,035,772	908,934	949,414	890,140
Kentucky		102,411	143,473	99,161	135,000	80,000
Tonnessee	•••••	13,210	9,795	8,609	40,047	64,191
Obio	460,618	545,052	592,768.	573,439	594,336	610,245
Indiana	93,530	150,279	185,958	194,296	272,748	277,860
Illinois	3 3,500	85,000	88,561	200	127,015	218,224
Totals 4.	024,704	4,912,180	4,726,881	4,157,814	4,828,918	4,396,130

The production of bar, angle, bolt, rod, skelp, and hoop iron in 1878 was 830.837 net tons, against 720,531 tons in 1877, 668,956 tons in 1:76, 668,755 tons in 1875, 687,650 tons in 1874, and 705,964 tons in 1873.

The production of plate and sheet iron in 1878, not including nail plate, was 182,042 net tons, against 182,242 tons in 1877, 165,255 tons in 1876, 192,769 tons in 1875, 176,888 tons in 1874, and 169,169 tons in 1873.

PRODUCTION OF ALL KINDS OF STEEL IN 1878.

The production of crucible steel in the United States in 1878 was 42,906 net tons, against 40,430 tons in 1877. The production of blister and puddled steel, and of steel made by various minor "patented" processes, was 8,556 tons in 1878, against 11,924 tons in 1877. The production of open-hearth steel in 1878, was 36,126 tons, against 25,031 tons in 1877.

Open-hearth steel was manufactured in eleven establishments in 1378, which were located in the States of New Hampshire, Vermont, Massachusetts, Pennsylvania, Ohio, and Tennessee. The increased production in 1878 over 1877 was 11,0.5 tons. Several open-hearth works which were idle in 1878, and several new works which are now being erected, will greatly increase the production of 1879 over that of 1878.

steel; 1875, 16,340 tons, of which 2,308 tons were Bessemer steel; 1876, 13,086 tons, of which 3,563 tons were Bessemer steel; 1877, 7,015 tons, of which 1,269 tons were Bessemer steel.

The following table shows the production of iron and steel rails in this country since the beginning of the manufacture of Bessemer steel rails.

Years.	Open-hearth steel rails. Net tons.	Iron rails, all kinds. Net tons.	Bessemer steel rails. Net tons.	Total. Net tons.
1867	1	459,558	2,550	462,108 506,714
1869		499,489 583,936	7,225 9,6:0	593,586
1870		586,000 737,483	34,000 38,250	620,000 775,733 1,000,000
1873		905,930 761,062 5⊭4,469	94,070 129,015 144,944	890,077 729,413
1874		501,649	290,863	729,410 792,513 879,629
1877		467,168 332,540 322,890	412,461 432,169 550,398	764,709 852,685

Included in the above statistics of iron rails are a few tons of crucible steel rails and steel-headed rails. The production of these rails has been steadily decreasing in late years. No crucible rails have been made since 1874, and but few tons in that or in any preceding year. The production of both the classes of rails mentioned was as follows in 1873 and 1874: 1873, 26,377 net tons; 1874, 17,181 tons. The production of steel-headed rails in the last four years has been as follows: 1875, 19,436 tons; 1876, 12,791 tons; 1877, 5,844 tons; 1878, 2,288 tons.

The following table shows the production in net tons of rails of all

kinds in the United States from 1873 to 1878, classified by States, together with the percentage made in each State in 1878:

PRODUCTION OF BESSEMER STEEL IN 1878.

The quantity of pig iron, spiegeleisen, and ferro-manganese converted into steel by the Bessemer process, in the United States, in 1878, was 739,765 net tons, against 562,227 tons in 1877. Of spiegeleisen and ferro-manganese, alone, there were used 61,466 tons, against 48,229 tons in 1877, 45,950 tons in 1876, and 33,245 tons in 1875. The number of net tons of Bessemer steel ingots produced in 1878 was 732,226, against 560,587 tons in 1877. The number of net tons of Bessemer steel rails produced in 1878 was 550,398, against 432,169 tons in 1877. In addition to the rails produced, there were sold or worked up by the Bessemer works into other forms 73,370 net tons of ingots. There were ten Bessemer steel works in operation in 1878, the only remaining works, the Vulcan, at St. Louis, being idle. The works which were in operation used only twenty converters. Down to the close of 1878 this country had produced a total of 2,145,595 net tons of Bessemer steel rails.

IMPORTS AND EXPORTS OF IRON AND STEEL IN 1878.

The value of the imports into the United States from all countries of iron and steel and manufactures thereof has been as follows from 1871 to 1878. The figures given represent foreign invoice valuations. Tin-plate is not included:

Calendar years.	Values.	Calendar years.	Values.
1871	\$47,919,927	1875	\$15,264,216
1872	61,724,227	1876	10,584,126
1873	45,764,670	1877,	9,195,369
1874	24,594,534	1978	8,943,043

A table showing the details of our imports of iron and steel in recent years is given elsewhere in this report, from which it will be seen that we imported in 1878 more pig iron, castings, and bar iron, and more cutlery and fire arms, than in 1877, and less of all other forms of iron and steel. No iron rails were imported in either 1877 or 1878, but in 1876 we imported 287 net tons. Of steel rails we imported 35 net tons in 1877 and 10 tons in 1878; in 1876 none were imported. Our imports of pig iron in 1877 and 1878 consisted mainly of spiegeleisen.

The value of the exports from the United States to all countries of domestic iron and steel and manufactures thereof has been as follows from 1871 to 1878:

Calendar years.	Values.	Calendar years.	Values.
1871	\$11,836,137	1875	\$16,092,906
1872	10,030,125	1876	11,794,743
1873	12,129,939	1877	16,659,675
1874	15,389,807	1878	13,260,369
			•

STEEL AND MANUFACTURES THEREOF FROM THE UNITED STATES TO ALL COUNTRIES DURING THE CALENDAR DAR YEARS 1874 TO 1878.—CURRENCY VALUES. DOMESTIC EXPORTS OF IRON AND

[Prepared from statistics furnished by the United States Burean of Statistics]

		1874.		1875.		1876.		1877.		1878.
Commodities.	Quan-	Values.	Quan- tities	Values.	Quan-	Values	Quan- tities.	Values.	Quan-	Values.
Iron, and manufacturers of— Pig iron, net tons	16,039	\$447,619	8,738	\$250,919	3,805	\$94,314	7,687	\$171,855	<u></u> _	\$ 31,206
Bariron "	4,717	331,341	9,548	675,465	3,383	222,284	2,959	154,711	2,511	126,747
Railroad bars or rails, not tons	1,257	73,159	1,210	67,064	3,665	153,465	7,445	281,196	9,108	259,740
Sheet, band, and hoop, "	ဘူ	12,254	79	260,170	70	5,998	314	25,990	142	11,068
Car wheels, number.	6,644	137,589	370	120,683	6,738	133,614	6,375	99,815	8,061	73,784
Stoves, and parts of	24	141,953	60	133,299	73	119,228		141,361	3	98,837
Steam engines, sectionary, number	41	51,296	28	81,572	23	75,412	3 33	62,720	8.08	127,076
Boilers, separate from engines	•	95,604	•	130,688		N		P.	:	122,744
Nails and spikes, not tons	5,139	4,103,200 481,010	4.897	434,743	4,405	313,902	4,932	318,520 318,520	4.840	3,010,872
res of		3,279,701		3,919,087		3,299,213		3,804,876		4,222,989
					(•
Ingots, bars, sheets, and wire, net tons	353	29,557	20	13 968	3	17,051	22	16,101	18	13,444
Edge tools		875,5 18		671.123		45, 185 626, 597		42,050 908.211		827,738
Files and saws		28,173		34,279		36,535		40,103		
Fire arms or rails not tons	•	0,913,4:0	•	5,154,576		3,004,723		5,65%,141	070	1,0%0,47 0,130
All other manufactures of steel		157,323		229,328		155,619		391,677	24.7	388,747
Total exports of iron and steel		\$15,379,807		\$16,092,906		\$11,794,743		\$16,659,676		\$13,260,369

Foundry Productions in Ohio as reported by Township Assessors to the Auditor of each County in May 1879.

Counties.	Stoves and hollow ware.	Car-wheels.	All other cast- ings.
	Tons made.	Tons made.	Tons made.
Belmont Carroll Clarke Columbiana Cuyahoga Hamilton Hocking Huron Lucas	325 33 1,890 10,900 12,000	15,009 2,400 30	185 27 600 135 17,200 90 136 100 185 150
Mahoning Marion Meigs Miami Montgomery Muskingum Perry Pickaway	700 2 160	5,000	962 90 180 257 3,009 300 28
Portage	600 75 687 200 460		1,162 175 250 200 1,151 429 6 231 40
Totals	27,386	22,450	27,118

LOCOMOTIVE, STEAM ENGINES, AND BOILERS, SUGAR MILLS, PORTABLE SAW-MILLS, AND FARM IMPLEMENTS MANUFACTURED IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO THE AUDITOR OF EACH COUNTY IN MAY, 1879.

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BOAT BUILDING IN ORIO AS REPORTED BY TOWNSHIP ASSESSORS TO THE AUDITOR OF RACH COUNTY IN MAY, 1879.

Table showing the Amount of Lime and Water Crment produced, and Stone-ware manufactured in Ohio as reported by Township Assessors to the County Auditors in May, 1879.

	Lime.	Water cement.	Stone-ware.
Counties.	Number barrels made.	Number barrels. made.	Number gallons made.
Adams Clarke Columbiana Cnyahoga Defiance Delaware Erie Fayette Greene Guernsey Hamilton Hancock Highland Jefferson Logan Marion Marion Mercer Morgan Muskingum Noble Perry Pickaway Portage Preble Sandusky Seneca Shelby Summit Tuscarawas	102,000 73,574 540 80,000 800 108,250 6,210 5,000 1,200 4,126 20,000 750 306 400 100 8,000 78,000 16,620	21,000 5,000	3,000 15,000 60,000 10,000 10,000 20,000 3,540,000 20,000
Wayne	3,500 9,300 1,100 532,826	32,166	1,000 5,354,200

NUMBER AND VALUE OF COUNTY BUILDINGS IN OHIO—Continued.

Counties.	erected w	buildings ithin the year une 30, 1879.	All county buildings now existing.		
	Number.	Value.	Number.	Value.	
Logan Lorain Lucas Madison Mahoning Marion Medina Meigs Mercer Miami Monroe Montgomery Morgan Morrow Muskingum Noble Ottawa Panlding Perry Pickaway Pike Portage Preble Putnam Richland		\$4,000 23,250 19,000 7,762	3 4 3 3 4 5 4 8	\$150,000 20,000 117,500 45,000 28,100 50,000 25,0.0 101,000 114,000 52,000 800,000 40,000 40,000 25,000 350,000 27,000 150,000 70,000 100,000 116,000 100,000 100,000 100,000 100,000 120,000 150,000 150,000 150,000 150,000 150,000	
Williams Wood Wyandot Totals	•		5 3 314	45,000 40,000 \$11,333,925	

^{*} Not reported.

200	<u> </u>	2,000 400 10,000
***************************************	6,763 1	3,200
		CR .
1,500	12,300 600 14,720	1,00
		<u> </u>
1000	1,860	
8	001,4 000	2,000 400 6,000
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-	\$ & &	22,350 11,320 67,465 69,468
835 833386238235538	33 428 2428283	. 43525525558
	\$23,250 19,000	
	11111111111	
1,200	8 1 4 1 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	19,000 75,000 8,000
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Hamilton Hancock Hardin Harrison Henry Henry Highland Hokking Holmes Hurou Jackson Jefferson Knox Lake Lawrence Licking	Lorain. Lucas Madison Matison Marion Medins Merige Mismi Monfomery Morgan Moskingum	Paulding Pery Pickaway Pickaway Pike Portage Preble Richland Richland

43,436	15,160	48,250	71,676	96,496	118,110	87,676	122,639	13,810	78,346	36,350	160,760	170,560	43,740	49,300	300	43,794	6.960	51,375	52,962	55,920	46,713	62,210	52,390	6,877,459
76	4 6	148	131	8	172	170	161	48	183	7.4	176	200	133	110	16	7	8	75	120	134	128	224	88	11,417 6
3,300	2,210	16,190	17,326	6,176	18,600	3,225	29,150		13,025		29,600	18,200	7,735	6,875	6,000		1.695	5,200	5,135	8,170	6,750	6,970		\$626,931
13	2	38	8	ස	56	11	69		41		29	19	88	22	ૠ		œ	17	3	ষ	35	84		2,240
1,000	28	280			•	310	•					23,000		1,175				1,200				1,330		\$115,810
8		က				က		•				15		co.				-	:	:	;	20	;	214
		950		4,000	800	•	2,000		3,000		2,500	24,700				1,339		2,700	18,320		2,500	3,000	3,450	\$412,054
•		က		က	-	8	7	:	CS.		က	တ			:	~	:	က	==		ည	0	9	264
8,641	• • • • • • • • • • • • • • • • • • • •		3.600		4.810	2,000						8,000			3,500	6,000			10,691		12,713	12,260	000'9	\$147,157
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1,000	•					8			•					•	•						:	200		15,790
-		•				_		:	•					:		•		:	:	:	:	-	:	11
						•	12,000									•		•					8	\$29,850
	•	•			•		1	•				•	•	:			•			:		:	-	10
150		1.800	3,200			138			•		908	•	2,100			•		•				1,300	1,100	\$17,780
-		C.S.	CR		•		:	:	•		_		cv	•	:	•	:		:	•	;	_	⇔	क्ष
Piokaway	Pike	Portage	•	Putnam	Richland	Ross	Sandneky	Scroto	Seneca	Shelby	Stark.	Summit	Tramball	Tuecarawas	Union	Van Wert	Vinton	Warren	Washington	Wayne	Williams	Wood	Wyandot	Totals

BUILDINGS AND OTHER PROPERTY DESTROYED BY FIRE, ETC.

TABLE SHOWING THE VALUE OF PROPERTY DESTROYED BY FIRE, FLOOD, OR OTHER CAUSES IN EACH COUNTY IN ORIO DURING THE YEAR ENDING JUNE 30, 1879, AS REPORTED BY COUNTY AUDITORS.

E MORELAN COLORS			130.11.71				·	أبحريما
Delaware				1				
Erie			4,600	5	2.600			7,200
Fairfield		13	3,940					
Fayette			300		_		*********	. "
Franklin				1				
Fulton		15	5,535	1				
Gallia			875					
Geauga			3,940	I				3,940
Greene		9	6,110	1	*****			6,110
Guernsey		5	2,000					
Hamilton		57	105,270			-		
Hanoock		10	5,470	1				5,470
Hardin		9	3,040					
Harrison		8	4,850					4,850
Henry		7	3,950				2,500	
Highland			5,280					5,250
Hocking		3	1,500					
Holmes		5	4,000	`]		i		
Huron	****	3	3,000	1		20	6,180	
Jackson		2	575	Lan		3	1,650	
Jefferson		5	9.00					950
Knox	!	- 6	1,942	7	1,544		1	
		11					[
Lawrence		2						
Licking 1		8	5,050				1,000	41,050
Logan		- 8	5,191				<i></i>	
Lorain			2,000					
Lucas		9	60,000	13	10,554		*******	70,554
Madison		3	1,900			***		1,900

MINES, MINING, MANUFACTURING, MTC.

BUILDINGS AND OTHER PROPERTY DESTROYED, STC-Continued.

^{*}Noble county, one building destroyed by flood, value \$246.

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LABOR STATISTICS.

REPORTED BY TOWNSHIP ASSESSORS TO THE AUDITOR OF EACH COUNTY IN ORIO IN MAY, 1879.

Adams
Allen
Abland
Abland
Abhabula
Athens
Auglaize
Belmont
Brown
Brown
Garrell
Champaigr
Clerke
Clerke
Clinton
Columbian
Columbian
Coshocton
Crawtord
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TRADE AND COMMERCE

OF

CINCINNATI, 1878-79.



dawn of which, in many a golden hue, may be traced in the business of the past year. Cincinnati looks out upon a future of great promise. Her financial foundations are strong. Her industrial forces are active and enterprising. Her commercial energies are soon to find the amplest opportunity for their exercise in a new field, of great breadth and richness. Her facilities for education in the professions and the arts are inviting pupils from all parts of the land. Her musical facilities stand without a rival in this country. Her public spirited citizens are embellishing the city with works of benevolence and beauty, while her centrality, her accessibility, her healthfulness, her good schools, her churches, her libraries, her society, and her many objects of interest and enjoyment, invite slike the tourist and the seeker for a permanent residence, and furnish an invaluable supplement to her business attractions.

The aggregate value of the products of our manufacturing industry, the number of hands employed, the value of real estate occupied, the cash capital invested, and the number of establishments engaged at Cincinnati, for each year in which statistics have been compiled touching these particulars, will be found in the following table:

* Not reported.

The aggregate, annual, approximate value of the imports and exports, respectively, at Cincinnati, from 1851-5 to 1878-9, inclusive, appears in the following table:

Years.	Imports:	Exports.
1854–55	\$67,501,311	\$38,777,394
1865–56	75,25,901	50, -09, 146
1856–57	77,950,148	56,612,173
1857–58	63,644,747	52,906,506
1858–59	94,213,247	66,007,707
8;9-60	103,347,216	77,037,186
860-61	90,195,136	67,023,126
.861-68	103, 292, 593	76,449,861
864-63	144,189,213	102,397,171
863-64	389,790,537	219.079,125
864-65	307,552,397	193,790,311
865-66	362,032,766	201, 450,065
966-67	335,961,233	192,929,317
867-68	250,063,948	144,262,133
864-69	283,927,903	163,084,356
84.9-70	312,978,665	193,517,690
870-71	283,796,219	179,844,427
871-78	317,646,608	200,607,040
87 1–73	326,023,054	213,330,76
873-74	331,777,055	221,536,85
874–75	311,072,639	201,404.02
875–76	294,814,843	190, 16,929
876–77	21.0,592,540	191,4-6,531
877–78	2 43, 237, 157	186,809,646
B78-79	200,153,301	192,335,33

THE MANUFACTURES OF THE CITY OF CINCHHAM -- Contidued.

		Yeare	Year ending January 1, 1879.	NF 1, 187	6		Your en	Year ending January 1, 1678.	ry 1, 1878	
Class of manufactures.	No. of establishments.	Cash capital invested.	Value of real estate	No. of bands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real catate occupied.	No. of hands employed.	Value of production,
Bread, craokers, etc.	27.2	\$120,000	\$520,000	1.603	\$2,431,300	098	\$ 1:1,000	191,000	1.500	82.072.690
	:3	262,500	95.0,000	4.20	339,000	34	3.0.000	250,000	550	
Bricklaying	쯝	1.20,000		26.5	339,547	31	175,000		997	549 545
	_	20,000	1 1,000	40	60,000	-	000,00	10,000	72	10,000
Brooms	10	12,000	16,000	is.	33,900	အ	12,300	16,006	35	29,700
Brushes and wire goods	17	0/6/06	102,800	603	214,200	17	ರಿಲ್ಕೆ ರಿಣ	113,700	E43	234,200
= :	96	298 300	941,000	07.0	1.296.800	8	0 63 000	1,194,000	10.0	1 617 600
Binga	7	24,500	40,596	7	47,304	***	25.673	49.600	12	49.931
	-	335,000	228,000	347	9	*	343,000	000,093	9.5	6.23, BOD
:	≈	1,900,000	1,3~4,700	1,100	8,104,427	2	1,645,030	1,513,500	1,0,1	7, 495, 030
Candy and other confectious	E.	143, 100	164,000	9	-10,000	30	258,500	216,000	P.	846,713
Canbell Fods	₹;	116,000	51,000	720	464,000	•	000,501	51,000	6.0	403,000
Correction of the contraction of	Ę 3	000,563	270,000	265	000 74	27	200,002	230,000	269,	1,522,018
sand Inoview	3 3	931 000	645,000	1,719	9 645 4 55	2 45	651,700	623,500	1 907	1 463 0-4
	**	413,000	1~,000	175	425,214	æ	257,000	164,000	3.14	313 460
Cement, lime, and plaster	9	25,500	0'KI,0%	6.9	34,300	9	29,700	23,9.0	\$	41,760
- :	_	5 0v0	3,030	Ð	10,000	-	5,000	3,000	÷	10,000
Chair backs and frames	ر د	31,000	26,000	8	97,003	*	37,450	37,000	8	111,135
Chargoal, feel (a)	= 1	12,000		70 :	31,000	3 3 (12,700		\	009,98
Chasing sum (4)	77-	200	0000	× 40	2000	ý –	2002	000	330	37.200 30.000
				•		•			•	•

Oblidren's carriages, hobby horses, etc	es 2	86,000	27,000	02	79,500	23 8	36,100		8	84,000
Clothing and need forminking goods	9	9 171 200	200,000		000 CO	9;	190,000	38	T KOD	647,630
Coffice And South Suitabling Boods.	8	200 000	0,000,000	75,700	201,201,8	11	4,145,140	3	13,831	10,131,300
Color	D W	0000	200,000	5 ł	212,80	2	000,03		3	33,700
COMO	0 0	20,000	100,000	5	000'001	۵;	26,32	116,000	**	103,900
Cotombg, dyeing, and landing work	3	35,000	103,000	20	181,700	2	96,200	88,000	214	_
· · · · · · · · · · · · · · · · · · ·	Ď	245,000	207,000	100	843,000	30	243,300	21d,500	24:9	627,000
	-	000,1%	36,300	8	78,610	!	15,900	4 5,00	Z	91,670
	2	164,700	60,000	00%	312,700	13	165,700	80,000	008	312,700
Cotton goods	+	241,000	341,000	344	533,000	-	833,000	313,000	315	516,000
Carled bair and briatles	!~	159,553	65,500	£	273,373	-	160,717	70,500	2	
	Œ	37,600	43,000	33	00'0'16	3	43,600	47,000	33	93,400
**********	3	34,000	20,000	107	139,000	8	30,000	40,300	75	107,300
	4	15,000	80,000	233	41,000	•	15,400	23,000	ž	40,400
and glyoetine	50	832,000	425,000	270 270	1,431,000	~	917,000	500,000	263	
duesnaware	33	155,000	162,000	900	239,700	Ç,	169,000	177,000	25.5	157,500
and iron show cards	31	40,000	38,000	16	155,000	273	40,000	39,000	99	155,000
Engraving, ginds	Çŧ	3,700	4.900	œ	00.00	31	3,700	4,900	14	11 000
	2	8,500	13,700	31	23,470	9	8,300	15,000	52	98.5
	*	10,400	17,000	19	49,300	2	008'6	14,400	47	40,40
Excelsion	24	13 000	19,000	7,	21,300	Ж	12,000	19 000	77	21.300
Fertilizare	7	193,000	24,000	133	30-,000	7	132,000	54,000	171	297,000
E1168	* (00%	0.00'06	7,	31,000	*	12,50)	300	8.4	45,600
Fire starm telegraph, etc	**	7,500	00.	7	25,300	n	7,500	6,200	13	15, 500
Fire-stme	1	000	3,000	01	0000'A	φ.	4,300	3,500	15	000'6
Fire-Drick, Co	۵.	40, 00	40,000	Q	61,700	4	40,500	40,000	40	61,700
***************************************		30,000	15,000	2	45,000	-	36,000	15,000	3	60,000
Fire-wood and kindling	79 (5,200	6,000		000,75	4	3,300	4,500	**	16,000
Fing and banners	24 5	18,000	10,100	5	200,18	99 :	11,000	10,000	5%	45,000
	28	000,712	172,000	25	450.034	æ;	200,000	160,000	S.	357,938
	3	115,000	400,000	B 8	00000	~1 (130,000	455,000	36	217,500
*********	4	25,000	000,25	3 3	27,900	**	2,100	35,700	61	
	2	379,000	177,000	2	000,100	9	405,000	242,400	499	612,000
	7	3,321,000	2,980,000	27.7	6,535,734	8	3,034,7~0	3,392,600	3,652	6,658,194
	r- ;	65,000	22,000	8	163,800		96,000		£60	
sheet from works	27	157,000	142,000	191	517,300	2	14,500	16+,000	191	549,300
	-	4,250,000	2,000,000	908	1,144,000	-	4,250,000	1,500,000	400	
Gat Remode	+	63,000	44,500	T	1.37,000	or)	000 000	63,000	37	. –
	-	150,000	100,000	25.00	200,000	-	200,000	110,000	OF A	. –.
Glass, stained and ground	Ġ.	10,000	10,000	2	000'68	9	11,200	13,300	œ	94,380
Giub (a)	4	175,000	20,000	13:	251,500	ω.	151,000	70,700	28	. –.
Gold follows	*	12,000	100001	#	60,000	123	19,900	13,200	47	66,400

THE MANUSACTURES OF THE CITY OF CINCINNATI-Continued.

		Year er	Year ending January 1, 1879.	ary 1, 187	oi.		Year on	Year ending January 1, 1878.	ıry 1, 187	ණ
Class of manufactures.	No. of establishments.	Caeh capital invested.	Value of real catate occupied.	Namber of hands em- ployed.	Velue of production.	No of setablishmenta.	Cash capital invested.	Value of real cetate beiquoce	Mamber of hands on ployed.	Value of production.
Rubber moldings and stamps	1-01¢	\$5,500 23,500 975,000	\$6,800 23,500	11 996	\$7,500 45,310 1,973,040	29 fc 20	\$5,370 23,500 1,000,0 0	\$10,000 23,500 425,000	11 46 970	\$7,860 45,800 1,915,000
Scales and tracks	(3 4)	35.540	95, +07 34,000	23	81,065 58,000	€ ₹	35,600	97.517 37,000	2 €	24 F83 65,000
Seal presses and canceling stamps Sealing wax Rawing machine outfits (see machines)	₽	3,000	19,000	20	10,000	E #3	7,000	19,010	38	83,000 13,000
for 1974) Shipping tage and those)	28	4,100	8,500	9	8,500	15 =	3,500	3,000	20.4	158,400 7,500
	71	39.300	35 F00	\$ Z	77,000	44	33 000	41,670	÷ 5	76.830
Starr building	==	34,100	37,000	228	103 400	. e o	153,000	116,040	33	324,920
Steamboats and barges	\$4 CT 3	8 0,600 1×0,000	350 000 170 000	53:	2745,000 358 0 70	ಯಣ್ಣ	60 1, 1 00 1e0, 000	363,000	E 21	835, P90 311,000
Stencila, dien and checks	2 0	21,000	45,000	‡ ‡	57,445	20	5,500 - 5,500	47,180	- - - -	64.420 61.000
Stone and marble work	3 2	7:30 000	661,000	1,140	1,137,704	<u> </u>	731,910	645,400	E I	1,35-1500
Ptove polish (a)	a. <u>'</u>	103,000	3 000	454	799,500	04 Z	4,700 184,500	3,000 9+1,500	₹8	4, 100 674,710

Tobacco, cigars (g)	503	838,000	000'039	2,830	2,356,365	49:3	820,000	000'006	2,500	2,159,723
" fine-cut, ping, and snuff (i) (41	876,330	450,000	1,050	2,015,162	ଞ୍ଚ ~~	000,000	54),000	900	2,056,003
Trunke and valiees.	14	169,000	234,700	113	169,300	14	109,000	256,500	120	184,800
Type and printing materials	ę	250,000	700,000	400	250,000	3	250,000	220,000	374	490,000
Unbrellas and parasols	ဘ	10,000	000,0	31	25,500	ເລ	4,700	8,500	14	11,400
Varnishes and Japans (a)	<u>ب</u>	160,000	75,00	45	200,000	ဗ	160,000	20 00 0	88	5 :0.000
•	34	125,000	85 000	99	191,000	39	105,600	65,100	99	196,000
Vermicelli, macaroni, and checolate	74	2,500	7,300	7	N.7.0	?	2.500	7,300	(~	8,750
Vinegar and oider	15	129,000	131,300	20	553,713	13	135,100	150,000	55	565,000
Wagons, carts, etc	33	297,300	260,000	513	000,129	4	162,000	25.4,000	X:0	45%,5.00
White lead, colors, paints, and putty	ဘ	£33,500	3.15.00	0.3	1,153,700	ဘ	634,000	326,500	707	1,236,000
Wige and hair goods	3.5	46,300	83 500	140	117,700	17	39,90	55,000	11:3	103,500
Willow ware	30	2,000	000'S	5:7	1:3,800	11	5,7(:0	8:3	12	11,600
Window shades (0)	4	097'6	16,000	33,	16,700	4	900.6	16 000	22	16,700
Woolen and worsted goods	**	145,000	000'16	154	241,000	*	163,000	125,000	1-7	276,00
Wnoden ware	13	195,000	17:4,000	K.S	192,120	96	0 0 007	210,000		555,400
Wood turning	æ	25,000	40,000	00	077.FU	38	000°:3	•	57	77,100
Wringing machines	~	75,000	30,000	40	110 000	~	75,000	30,100	40	120,000
Totals	5,272	57,509,215	45,245,687	67,145	138,736,115	5,163	57,664,692	47,461 792	64,709	135,123,768

Han 18, etc., included with provisions.

Hands, product, etc., of bottling establishments included. Fatimated.
34,344,429 pounds, 1873.
Previous year's figures, 9,076,447 gallons, 1878.
17,776,254 gallons, 1878.
8,814,319 gallons, 1878.
93,953,300 cigars, 1878.
81,560 barrels, 1878. 60° 50° 50° 60° 4

2,511,000 cigarettes, 1578.

4. Number of establishments manufacturing plug tobacco, 4; fine cut, 13; smoking, 18; snuff, 6. Quantity produced: plug, 137,566 pounds; fine-cut, 2,115,41ct pounds; smoking, 1,824,841 pounds; snuff, 15,613t pounds, 1878.

HUFFHWUHTHWEITH

STATEMENT OF FOREIGN MERCHANDISE IMPORTED AND APPRAISED AT OTHER PORTS, AND TRANSPORTED TO THE PORT OF CINCINNATI, DURING THE PAST THREE YEARS, EACH YEAR ENDING JUNE 30.—Maxwell.

	Daty.		\$21,229 92 781 00 427 59 321 18 321 18 1,699 95 13,948 50
1876-77.	Invoice value.	•	\$103.405 1,766 476 908 9,488 9,488
	.Titasn9		144,532 187 123 7-1t
	Duty.		\$1,728 12 351 31 618 10 507 60 571 15 116 30 699 30
1877-78.	Invoice value.	\$124	6,064 1,766 1,766 1,163 1,193 1,193 4,952
	Quantity.		11,520
	Daty.		\$375 00 126 80 619 00 619 00 2,167 54 75 60 618 60 618 60
1878-79.	Jnyoice value.		317 1,842 1,842 3,55 4,003 6,692 3,245 9,252
	Quantity.		2,500
	Articles.	Free of Duty. Miscellaneous	Rice, pounds Barley, bushels Champagne, dozen Cigars, pounds Cotton, manufactures of China, earthenware, etc. Fire-arms Fire-

STATEMENT OF FOREIGN MERCHANDISE IMPORTED, ETC.—Continued.

	Daty.	7,630 00 8,301 50 2,30 70 2,236 42 \$02,67791
1876-77.	Invoice value.	\$17,982 11,685 3,678 3,678 8,096 8,096
	Quantity.	19,075 23,590 341,645
	Daty.	\$6,07 60 282 35 707 00 1,534 80 1,447 31 \$33,451 29
1578-78.	Invoice value.	\$14,697 1,376 741 2,193 3,737 34,3,6 4,015 \$53,260
	Quantity.	16,519 151 2,020 28,656 775,369
	Duty.	\$12,226 £0 1,332 60 1,152 90 1,038 40 £05 93 £07 03 \$4,709 03
1578-79.	Invoice value.	\$27,172 3,761 2,250 1,507 1,52 86- 07.3 \$15,187
	Quantity.	3,294
	Articles.	Wine, in casks, gallous Wine, in bottles, dozon Leaf tobacco, poundures of Wool, manufactures of Glycerine, pounds Tin-plate, pounds Miscellaneous Totals Increase compared with 1877-78 Decrease '' 1877-78

TABLE SHOWING THE COLLECTIONS OF INTERNAL REVENUE, ALL SOURCES, IN CIN-CINNATI FOR TWO YEARS.—Maxwell.

	1878-79,		1877-78.
		•	
Distilled Spirits.			
Tax on spirits, at 50 cents per gallon			
Rectified stamps	\$8,794,161 23,600		\$7,507,742 80 24,006 40
Wholesale liquor stamps	2,233	3 0	1,878 00
Distillery warehouse stamps	20,793		17,384 90
Other kinds of taxes	427		205 00
Canor William OI parce			
Totals	\$8,841,218	80	\$7,551,217 10
Beer.			
Tax on beer (less 74 per cent. discount allowed for sour beer) at \$1.00 per barrel	\$ 516,805	87	\$509,229 88
Tobacco, Cigars, and Snuff.			
Tax on smoking and chewing tobacco, cigars, and snuff.	\$ 1,349,845	14	\$1,621;460 98
Banks.			
Tax on bank deposits (1-24 of 1 per cent. per month) " capital (1-24 of 1 per cent. per month)	\$27,906 6,660		\$37,044 67 7,046 76
Totals	\$34,566	77	\$44,091 43
Special Taxes (Licenses), etc.			
Rectifiers	\$8,566	73	\$12,483 33
Wholesale liquor dealers	18,345	83	17,916 67
Retail liquor dealers			77,543 34
Stills or worms for distilling manufactured	2,375 20	00	2,140 00
Manufacturers of stills	24	99	
Manufacturers of cigars and tobacco, dealers in manufactured and leaf tobacco, and peddiers of tobacco	28,777	42	27,794 56
Totals	\$138,653	75	\$137,777 9
Other Sources.			
Tax collected from other sources	\$10,032	06	\$3,891 66
Tax all sources	\$10,891,122	39	\$9,867,668 9



TRADE AND COMMERCE or TOLEDO.

THE MANUFACTURES

OF THE

CITY OF CLEVELAND.

: traps Steel wire. ig machines. Stoves. ıla. Tanners.

Telegraph instruments.

Tobacco. **gs.**

g beds. Tool manufacturers, 9.

machines. Trunks. ı engines. Truss. Bessemer works. Varnish. Otis works. Vinegar.

screw works. Wagons. Washboards. Washers.

Washing machines.

Water drawers. Wheelbarrows.

White lead. Wire works. Wooden ware. Woolen mills.

Vessels, steam and sail.

BRRATUM.

The headings of "Marriages in each mostih," pp. 308, 309, should commence with Apill antend of January, and end with March instead of December. Hence, for January, seed April; for February, read March, etc., etc.

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